

2006 ANNUAL REPORT

RCRA MONITORING PROGRAM
Envirite Corporation
198 Old Waterbury Road
Thomaston, Connecticut

AARON Project #1827

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PREFACE

This report has been prepared for the sole use of Envirite Corporation (Envirite), the Customer of AARON Environmental LLC (AARON). Material contained herein is considered privileged and confidential; as such, any dissemination, distribution or copying of this report is strictly prohibited without the expressed written consent of the Customer.

Conclusions listed in this document have been based on information provided in part by the Customer, the Customer's agents or third parties including but not limited to the state and local authorities. Pursuant to this, AARON does not guarantee the accuracy of said information. Information regarding the sampling and testing for the presence of hazardous materials is also included in the scope of this report. AARON makes no warranties regarding the presence of compounds other than those tested. Findings and conclusions presented in this report have been developed in accordance with generally accepted environmental engineering practices.

These environmental methods have been developed to provide the Customer with information regarding apparent indications of existing or potential environmental conditions relating to select areas of investigation at the subject property, and are limited to the information available at the time of the site visit and research.

Portions of the site description and history information included in this report have been taken from the 1996 Annual Report prepared for Envirite by GZA GeoEnvironmental (February 1997).

1.0 INTRODUCTION

Envirite Corporation retained AARON Environmental LLC (AARON) to perform quarterly groundwater sampling and monitoring during the calendar year 2006 at its former Thomaston, Connecticut industrial waste treatment facility (now known as Thomaston Enterprises, Inc.). Envirite is responsible for continuing with quarterly groundwater sampling in accordance with a previously established RCRA Quarterly Groundwater Monitoring Program.

1.1 Site Description

The subject site is located primarily within the Town of Thomaston, Connecticut - except for the westernmost portion of the site, which is located within the Town of Watertown, Connecticut. A Site Location Map is included as Figure 1. The site is located between Branch Brook (which flows through the western portion of the site) and the Naugatuck River (located approximately 100 feet east of the site). Properties surrounding the subject site include the Thomaston Publicly Owned Treatment Works (POTW) to the south, and various commercial and industrial businesses to the north. The site may be accessed from Old Waterbury Road.

1.2 Site History

Envirite actively operated an industrial waste treatment facility at the subject site from 1975 until 1990. Waste liquids (consisting of metal finishing solutions and wastewater sludge) were processed and land filled on site between 1975 and 1989. The facility continued to treat wastes for off-site disposal until 1990, when Envirite discontinued active operation at the site. In May 1996, the site buildings were sold to Pure Etch of Connecticut, with Envirite retaining ownership of the landfill portion of the property. In January 1997, Envirite completed a corporate and legal reorganization that resulted, in part, in its Thomaston landfill becoming an individual subsidiary wholly owned by Envirite Holding Company (which in turn, is wholly-owned by Envirite Corporation). As previously indicated, the subject site is now known as Thomaston Enterprises, Inc. The site buildings were sold back by Pure Etch to Thomaston Enterprises, Inc. in February 2004.

Additional information pertaining to site history is included in previous annual reports for the facility.

2.0 GROUNDWATER MONITORING PROGRAM

2.1 Groundwater Monitoring Well Network

The 2006 quarterly sampling program performed by AARON included 12 monitoring wells (MW-30, MW-31S, MW-33, MW-36, MW-41S, MW-41D, MW-41B, MW-42S, MW-43S, MW-43D, MW-44D and MW-44B). AARON also collected two (2) surface water samples from Branch Brook; one up-gradient sample [SW-UP] and one down gradient sample [SW-DN].

Existing monitoring wells are constructed of 2-inch PVC with locking protective casings and, where appropriate, concrete seals for surface protection.

2.2 Groundwater Sampling and Analysis

AARON collected groundwater and surface water samples and submitted the samples to EAS Laboratories, Inc. (EAS), for the first three quarters and Phoenix Laboratories (Phoenix) for the last quarter, both Connecticut certified laboratories, for analysis. Sampling and analytical procedures were performed in accordance with Envirite's revised Post-Closure Plan (April 1987), as approved by USEPA and CT DEP. Samples from RCRA quarterly monitoring wells were analyzed in the field for specific conductivity, pH and temperature (data collected during each quarter are included in the Tables section). The samples were further analyzed for volatile organic compounds (VOCs) and selected inorganic constituents, which are listed on the quarterly laboratory sheets in the Appendices to this report. Samples were analyzed according to USEPA Method 8260 and by additional methods described in "Test Methods for Evaluating Solid Waste", USEPA SW-846 (1991) and "Standard Methods for Examination of Water and Wastewater", APHA-AWWA-WPCF (1989). The sampling and analytical protocols used were consistent with Envirite's Post-Closure Plan and subsequent revisions including the response to the EPA's review and comment of Envirite's groundwater assessment plan (May 1992).

2.3 Quality Assurance/Quality Control

Quality Assurance/Quality Control (QA/QC) samples were collected during each of the four (4) 2006 sampling events. These samples consisted of trip blanks (one collected each sampling day); a field blank, an equipment blank, and a duplicate sample collected from monitoring well MW-42S, for each quarterly sampling event. Results of QA/QC sampling for each quarter are summarized in AARON's quarterly reports of 2006.

3.0 HYDROGEOLOGY

3.1 Hydrogeologic Setting

The hydrogeologic setting of the subject site is discussed in the Phase I report titled "RCRA Facility Investigation, Phase I Report, Envirite Corporation, Thomaston, Connecticut" submitted to the CTDEP and USEPA in March 1995. The information presented in this section has been taken from the 1996 Annual Report prepared by GZA.

3.1.1 Physiographic and Topographic Setting

The subject site is located within the Branch Brook Sub-basin (Number 6910) of the Naugatuck Regional Basin (DEP bulletin No. 4, June 1982). The facility is located approximately 0.4 miles north of the confluence of Branch Brook with the Naugatuck River. The Naugatuck River Valley is located in the western highlands area of Connecticut; the general topography of this area consists of rolling farmland with occasional steep valleys associated with the Naugatuck River and its tributaries. In the vicinity of Envirite, the elevation of the Naugatuck River bed is approximately 317 to 324 feet above mean sea level. The adjacent highlands range in elevation from 550 to 850 feet above MSL.

The topography of the area was created during periods of Pleistocene glaciation, which stripped away pre-glacial deposits and scoured the bedrock leaving a hard, fresh bedrock surface. Exposed bedrock is still found throughout the highland areas and occasionally along the Naugatuck River.

3.1.2 Surficial Geology

The glacial and post-glacial deposits overlying the bedrock consist of till, stratified drift and glacio-fluvial deposits. Till is the most extensive deposit in the area covering the majority of the highlands. Stratified drift and glacio-fluvial deposits are found mostly within the river valleys. During recent down cutting and flooding of the area rivers, relatively thin layers of alluvium have been deposited on the glacial deposits.

3.1.3 Bedrock Geology

Based on preliminary mapping and field observations of the Thomaston area, bedrock in the vicinity of the subject site is composed of gneiss and schist. The USGS bedrock map of Connecticut (Rodgers, 1985) identifies the bedrock beneath the site as part of the Collinsville Formation, which is similar or equal to the Reynolds Bridge Formation described by Cassie (1965) and MacGregor (1965) and to the Hitchcock Lake Member of the Hartland Formation described by Gates and Martin (1967). These formations are composed of gray-silvery, medium to coarse-grained schist and dark, fine to medium-grained amphibolite and hornblende gneiss. Gneiss in the area is characteristically banded and streaked with dark and light micas, quartz and feldspars. Schists in the area are part of the Straits Schists formation, a coarse plagioclase, muscovite and quartz rock with large crystals of garnet and kyanite.

The Straits Schist is the most resistant rock type in the area and forms the most prominent ridges. Generally, the northwesterly dip of the Straits Schist controls the steep east facing cliffs and the gentler northwest facing slopes of the north-south trending ridges. The Naugatuck River valley and its associated steep east and west walls were most likely created by the down cutting of the Naugatuck River and glacial activity.

Please refer to the 1996 Annual Report prepared by GZA for additional information on the surficial and bedrock geology of the site, including cross-sectional views.

3.2 Site Specific Hydrogeologic Setting

Monitoring well elevation data for the four (4) reporting periods of 2006 are included in the Table 1. Monitoring well locations are illustrated on Figure 2.

3.3 Groundwater Flow Direction

Horizontal groundwater flow maps for February, May, September and December 2006 are included in the Figures section of this report (Figures 3, 4, 5, and 6). The observed flow patterns during the four quarterly monitoring events are relatively consistent with historical data. As has been reported

previously, groundwater flow at the site is generally toward the south, but is strongly affected by recharge from the adjacent rivers and bedrock, which dips to the southwest.

Xpert Design and Diagnostics, LLC (XDD) described a conceptual model of groundwater flow patterns at the Thomaston Site in a letter to Envirite dated September 29, 1999. The XDD model states that groundwater flow is influenced during winter and spring months by recharge from the Branch Brook, which borders the western side of the Site and the Naugatuck River, which runs parallel to the Eastern boundary. Recharge from Branch Brook causes a groundwater mound to form in the northeast corner of the Site. This results in an easterly flow of groundwater across the northern side of the Site. The XDD model further states that the easterly component of flow is mitigated by a similar groundwater mound caused by recharge from the Naugatuck River. As a result, groundwater flow changes from easterly to south southeasterly as it approaches the Naugatuck River.

Downward vertical gradients were consistently observed in the southwest corner of the site. Occasional downward gradients were observed in the central and southeastern portions of the site. The XDD Model suggests that vertical groundwater mixing between the deep and shallow overburden is probable. In most cases, this results in shallow groundwater mixing into deeper overburden groundwater within a period of thirty days or less.

Based upon interpretation of data collected during 2006, the hydraulic gradient of shallow groundwater at the site ranged from approximately 0.006 to 0.008 ft/ft.

4.0 SUMMARY OF ANNUAL ANALYTICAL RESULTS FOR 2005

4.1 Comparison Criteria

For comparison purposes only,¹ the annual monitoring data were compared to the Surface Water Protection Criteria (SWPC), the Residential Volatilization Criteria (RVC) and the Industrial Volatilization Criteria (IVC). According to the CT DEP Remediation Standard Regulations (RSRs), to demonstrate compliance with the SWPC certain Volatile Organic Compounds (VOCs) and Metals must achieve one of the two following criteria:

1. The average of the four consecutive quarters of samples has to be less than or equal to the SWPC, or
2. The concentrations at the sampling locations immediately upgradient of the point where the groundwater enters a receiving surface water body is less than or equal to the SWPC, providing the plume is not increasing in size or concentration.

¹ It should be noted that Envirite's legal counsel had advised that, according to the Regulations of Connecticut State Agencies Section 22a-133k-1(b), the RSRs do not apply to areas that are affected by discharges allowed under a ground water discharge permit issued pursuant to Section 22a-430. Envirite has held a ground water discharge permit since 1984 at the Thomaston facility. Thus while compliance with RSRs is one indicator of potential need for remediation to CTDEP, USEPA, and Envirite, these regulations are not strictly applicable to ground water constituent levels at the Thomaston facility.

To demonstrate compliance with the RVC or IVC, the 95% Upper Confidence Level (UCL) of the arithmetic mean of the four quarters of samples has to be less than or equal to the RVC or IVC, and no single sample can be more than twice the RVC or IVC. Note: the 95% UCL is calculated using the draft CT DEP's "Calculating the 95% Upper Confidence Level" dated October 5, 2000 and four consecutive quarters of analytical data.

4.2 Volatile Organic Compounds (VOCs)

Tables 2 and 3 summarize the analytical data for VOCs in the GB and GA wells, respectively.

SWPC: To compare these data to the SWPC, the arithmetic means of the concentrations of the VOCs, with at least one detection, were calculated. If the concentration was below the detection limit (BDL), half the detection limit was used in the calculation. As shown in Table 4, none of the averages were greater than the applicable SWPC.

RVC: As shown in Table 5, six VOCs –benzene, cis-1,2-dichloroethene, ethylbenzene, toluene, trichloroethene, and vinyl chloride – were detected at concentrations greater than the RVC in 2006. However, three of these six VOCs – cis-1,2-dichloroethene, toluene and vinyl chloride – are ineligible for statistical analysis because one or more single sample concentrations were greater than two times the RVC in 2006. For the remaining three VOCs, the calculated 95% UCL is below the RVC (Tables 6-8).

IVC: As shown in Table 5, one VOC –vinyl chloride – was detected at a concentration greater than the IVC in 2006. If the IVC were used for statistical analysis comparison, vinyl chloride would not be eligible because one or more single sample concentrations were greater than two times the IVC in 2005.

The VOCs that were detected at concentrations greater than two times the RVC or IVC are discussed below:

- Cis-1,2-Dichloroethylene was detected in ten of the twelve wells sampled during the December 2006 sampling event. The concentration was over two times the RVC in one well, MW-31S, however below the IVC.
- Toluene was detected in MW-31S during all four quarters. The concentrations were above two times the RVC during the February and December 2006 sampling events. However, the concentrations were below the IVC for all four quarters.
- Vinyl chloride was detected in MW-31S during all four sampling events. The concentrations were well over two times the RVC and IVC for all four quarters.

In addition, two surface water samples (SW-DN, SW-UP) were collected from Branch Brook during each sampling event. No VOCs were detected in any of these samples (see Table 8).

4.3 Inorganic and Indicator Parameters

Tables 2 and 3 summarize the analytical data for inorganic and indicator parameters for GB and GA wells, respectively. Table 9 summarizes the data for inorganic and indicator parameters for surface water samples. The average concentrations of the cyanide and metal constituents over the four quarters are compared to the SWPC, where appropriate. No comparison criteria exist for the remaining indicator parameters.

SWPC: As shown in Table 4, zinc has an arithmetic average in 2006 (252 ug/L); greater than the SWPC (123 ug/L). The annual average for 2006 is lower than the annual average for 2005 (375 ug/L). The wells with the highest zinc concentrations are MW-31S, MW-43D, MW-44B and MW-43D. The other metals have arithmetic averages below the SWPC.

Also, two surface water samples (SW-DN, SW-UP) were collected from Branch Brook during each sampling event. The samples were analyzed for inorganic and indicator parameters, and compared to the Aquatic Life Criteria (ALC) and Human Health Criteria (HHC). Concentrations of zinc in the upstream and downstream sample during the first sampling event, 77 ug/L and 72 ug/L respectively, were higher than the acute and chronic ALC (65 ug/L). However, the zinc concentrations were below the ALC for both upstream and downstream samples in the three remaining sampling events. No constituents had concentrations higher than the HHC. See Table 9 for a summary.

4.4 Inorganic and Indicator Parameter Trends

A table of historical analytical data as well as trend charts for analytes of concern is included in the Charts section of this report.

Chloride: Concentrations of chloride remained relatively stable throughout 2006 and are similar to concentrations found in the previous year; however concentrations in MW-30 have declined significantly since 2004.

Sulfate: Concentrations of sulfate remained relatively stable throughout 2006 and are similar to concentrations found in the previous year however; however MW-30 and MW-31S have declined in concentration since 2004.

Sodium: Concentrations of sodium remained relatively stable throughout 2006 and are similar to concentrations found in the previous year; however concentrations in MW-30 have declined significantly since 2004.

Total Dissolved Solids (TDS): Concentrations of TDS remained relatively stable throughout 2006 and are similar to concentrations found in the previous year; however concentrations in MW-30 have declined significantly since 2004.

Total Suspended Solids (TSS): Concentrations of TSS remained relatively stable throughout 2006 and are similar to concentrations found in the previous year. MW-33 continues to have the highest concentration.

Nitrite: Concentrations of nitrite remained relatively stable throughout 2006 and are similar to concentrations found in the previous year; however nitrite was not detected in MW-30 which previously had the highest concentrations. .

Nitrate: Concentrations of nitrate remained relatively stable throughout 2006 and are similar to concentrations found in the previous year; however concentrations in MW-30 declined significantly.

Phenols: Concentrations of phenols remained relatively stable throughout 2006 and are similar to concentrations found in the previous year. MW-31S continues to have the highest concentrations.

Total Organic Carbon (TOC): Concentrations of TOC remained relatively stable throughout 2006 and are similar to concentrations found in the previous year. MW-31S continues to have the highest concentrations.

Total Organic Halogens (TOH): Concentrations of TOH remained relatively stable throughout 2006. MW-31S continues to have the highest concentrations.

Cadmium: Concentrations of cadmium remained consistent with levels detected over the last few years, and considerably lower than concentrations measured at the beginning of the monitoring program. Concentrations were relatively stable during 2006.

Chromium: The reported concentrations of this compound were below detection limits throughout the sampling events of 2005, with the exception of detections in MW-31S in all four quarters of sampling and detections in MW-33 and MW-42S in the third quarter. The average concentration measured across the monitoring well network in 2006 was below the SWPC.

Copper: Concentrations of copper remained consistent with levels detected over the last few years, and considerably lower than concentrations measured at the beginning of the monitoring program. Concentrations were relatively stable during 2006.

Iron: Iron concentrations during 2006 remained consistent with levels detected over the last few years. Iron concentrations continue to be found at their highest levels in monitoring well MW-31S.

Manganese: Manganese concentrations during 2006 were generally consistent with historical data; however concentrations in well MW-31S appear to be rising over the past couple of years.

Nickel: Concentrations of nickel remained consistent with levels detected over the last few years, and considerably lower than concentrations measured at the beginning of the monitoring program.

Zinc: Zinc concentrations remained consistent with levels detected over the last few years, and considerably lower than concentrations measured at the beginning of the monitoring program. The highest concentrations were found in monitoring well MW-31S.

4.5 VOC Trends

Ethylbenzene & Toluene: These compounds are observed in one monitoring well (MW-31S) and likely originate from Pre-Envirite Waste Material (PEWM). Concentrations of Ethylbenzene and Toluene remained fairly consistent with historical levels.

Tetrachloroethylene: Concentrations of this VOC remained relatively stable throughout 2006, with a decrease in concentrations in monitoring well MW-30. This VOC likely originates from the PEWM.

Trichloroethene: TCE concentrations remained relatively consistent with historical data at the site, with a decrease in concentrations in monitoring well MW-30. This VOC likely originates from the PEWM.

Vinyl Chloride: Vinyl chloride concentrations remained relatively consistent with historical data at the site. The highest concentrations generally continue to be found in well MW-31S. Historically MW-30 also had high concentrations, but during 2006, vinyl chloride was below the detection limit in this well. This VOC likely originates from the PEWM.

4.6 Quality Assurance / Quality Control

QA/QC samples collected each quarter consist of a duplicate sample (MW-42S), an equipment blank, a field blank, and a trip blank. Trip blanks were prepared using distilled or de-ionized water supplied by the laboratory and field blanks were prepared in the field using distilled or de-ionized water. No equipment contact with the field blank water is required since dedicated bailers are used to collect water samples. In general, the concentration and distribution of the field measurements and indicator constituents detected in the field and equipment blanks are consistent with historical analytical data from the site. Blank and duplicate results are attached in the appendix section of this report. See Table 10 for summary.

Duplicate samples generally displayed good correlation with the original sample. During 2006, the QA/QC data indicates the analytical data accurately reflect groundwater quality.

5.0 ADEQUACY OF THE CURRENT MONITORING PROGRAM

The current approved sampling program consists of twelve monitoring wells and two surface water samples (upstream and downstream samples from Branch Brook). The monitoring and sampling program conforms to USEPA and CT DEP protocols and appears adequate to monitor the required groundwater quality parameters at the site.

6.0 DISCUSSION

The data from 2006 are generally consistent with the data from previous years. Two primary source areas have previously been identified, and the highest concentrations of constituents are found in the wells within these areas. These areas are as follows:

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- 1) Pre-Envirite Waste Areas: Monitoring wells MW-30 and MW-31S are located in areas affected by environmental conditions that existed prior to Envirite. These wells often contain the highest concentrations of certain inorganic constituents (notably zinc, sulfate, sodium, nitrite, nitrate, chloride, iron, manganese, TDS, and TOC). In addition, these wells contain the highest concentrations of certain volatile organic compounds, especially toluene, ethylbenzene and vinyl chloride.
- 2) Acid Release Areas: Acid spills were reported at the site in 1978 and 1983. Monitoring well MW-43D, located down gradient of the spill areas, historically shows the lowest pH. Copper, nickel, and zinc concentrations in MW-43D historically contained the highest concentrations of these metals.

Envirite continues to monitor the well network as required by the Post-Closure Plan. Concentrations of target VOCs and metals continue to be consistent with past reports.

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References

1995 Annual Report - RCRA Monitoring Program -Envirite Corporation - Thomaston, Connecticut,
February 23, 1996, GZA GeoEnvironmental, Inc., Vernon, Connecticut

1996 Annual Report - RCRA Monitoring Program -Envirite Corporation - Thomaston, Connecticut,
February 28, 1997, GZA GeoEnvironmental, Inc., Vernon, Connecticut

1997 Annual Report - RCRA Monitoring Program -Envirite Corporation - Thomaston, Connecticut,
May 1998, AARON Environmental Waterbury, Connecticut

1998 Annual Report - RCRA Monitoring Program -Envirite Corporation - Thomaston, Connecticut,
March 1999, AARON Environmental Waterbury, Connecticut

1999 Annual Report - RCRA Monitoring Program -Envirite Corporation - Thomaston, Connecticut,
March 2000, AARON Environmental Waterbury, Connecticut

2000 Annual Report - RCRA Monitoring Program -Envirite Corporation - Thomaston, Connecticut,
February 2001, AARON Environmental Waterbury, Connecticut

2001 Annual Report - RCRA Monitoring Program -Envirite Corporation - Thomaston, Connecticut,
December 2002, AARON Environmental Waterbury, Connecticut

2002 Annual Report - RCRA Monitoring Program -Envirite Corporation - Thomaston, Connecticut,
January 2003, AARON Environmental Plantsville, Connecticut

2003 Annual Report - RCRA Monitoring Program -Envirite Corporation - Thomaston, Connecticut,
January 2004, AARON Environmental Plantsville, Connecticut

2004 Annual Report - RCRA Monitoring Program -Envirite Corporation - Thomaston, Connecticut,
January 2005 AARON Environmental Plantsville, Connecticut

2005 Annual Report - RCRA Monitoring Program -Envirite Corporation - Thomaston, Connecticut,
January 2006 AARON Environmental Plantsville, Connecticut

Conceptual Model of Ground Water Flow Patterns and Vertical Mixing at Envirite Landfill, Thomaston,
CT. September 29, 1999, Xpert Design and Diagnostics, LLC (XDD), Letter to Mr. William McTigue

Water Quality Standards, April 1996, Connecticut Department of Environmental Protection

TABLE 1 - SUMMARY OF GROUNDWATER DATA, PH AND SPEC. CONDUCTIVITY

Thomaston Landfill (Envirite)
2006 Annual Report

Well	Date	Reference Elevation	Depth to Water	Water Elevation	pH	Specific Conductivity
MW-30	2/15/2006	341.71	16.65	325.1	5.3	258.0
	5/15/2006	341.71	15.20	326.5	7.5	103.0
	9/6/2006	341.71	12.43	329.3	7.6	153.0
	12/12/2006	341.71	17.03	324.7	6.3	290.0
MW-31S	2/15/2006	340.30	15.36	324.9	5.25	1,362.0
	5/15/2006	340.30	13.50	326.8	6.15	1,754.0
	9/6/2006	340.30	16.25	324.1	6.33	1,816.0
	12/12/2006	340.30	15.70	324.6	6.71	1,440.0
MW-33	2/15/2006	340.49	17.80	322.7	7.11	67.0
	5/15/2006	340.49	15.30	325.2	6.93	771.0
	9/6/2006	340.49	18.25	322.2	6.82	8,920.0
	12/12/2006	340.49	18.00	322.5	7.6	590.0
MW-36	2/15/2006	329.00	4.12	324.9	5.63	301.0
	5/15/2006	329.00	3.62	325.4	7.26	718.0
	9/6/2006	329.00	5.55	323.5	7.51	396.0
	12/12/2006	329.00	3.95	325.1	7.02	265.0
MW-41B	2/15/2006	335.26	14.97	320.3	6.26	922.0
	5/15/2006	335.26	11.42	323.8	6.77	1,038.0
	9/6/2006	335.26	15.54	319.7	6.82	1,074.0
	12/12/2006	335.26	15.40	319.9	6.83	1,780.0
MW-41D	2/15/2006	335.26	11.17	324.1	6.13	375.0
	5/15/2006	335.26	4.42	330.8	7.19	455.0
	9/6/2006	335.26	11.60	323.7	6.51	586.0
	12/12/2006	335.26	11.45	323.8	6.65	650.0
MW-41S	2/15/2006	334.41	12.16	322.3	6.92	340.0
	5/15/2006	334.41	10.45	324.0	7.21	294.0
	9/6/2006	334.41	12.62	321.8	6.23	413.0
	12/12/2006	334.41	12.42	322.0	6.31	360.0
MW-42S	2/15/2006	340.43	18.34	322.1	6.14	854.0
	5/15/2006	340.43	16.57	323.9	7.19	518.0
	9/6/2006	340.43	18.80	321.6	6.75	460.0
	12/12/2006	340.43	18.72	321.7	6.82	590.0
MW-42S (dup)	2/15/2006	340.43	18.34	322.1	6.14	854.0
	5/15/2006	340.43	16.57	323.9	7.19	518.0
	9/6/2006	340.43	18.80	321.6	6.75	460.0
	12/12/2006	340.43	18.72	321.7	6.82	590.0
MW-43D	2/15/2006	340.65	18.00	322.7	6.47	2,120.0
	5/15/2006	340.65	16.00	324.7	6.37	1,744.0
	9/6/2006	340.65	18.34	322.3	5.35	1,967.0
	12/12/2006	340.65	18.32	322.3	6.18	1,630.0
MW-43S	2/15/2006	340.43	17.80	322.6	6.61	1,720.0
	5/15/2006	340.43	16.85	323.6	6.48	1,448.0
	9/6/2006	340.43	18.11	322.3	6.25	1,787.0
	12/12/2006	340.43	18.00	322.4	6.22	1,470.0
MW-44B	2/15/2006	339.28	18.18	321.1	6.81	1,904.0
	5/15/2006	339.28	17.12	322.2	6.43	3,320.0
	9/6/2006	339.28	18.14	321.1	6.44	2,040.0
	12/12/2006	339.28	18.25	321.0	7.43	2,050.0
MW-44D	2/15/2006	340.33	16.56	323.8	6.63	3,050.0
	5/15/2006	340.33	14.38	326.0	6.44	2,140.0
	9/6/2006	340.33	17.00	323.3	5.80	3,010.0
	12/12/2006	340.33	16.85	323.5	6.71	2,300.0
Upstream	2/15/2006	NA	NA	NA	6.85	99.0
	5/15/2006	NA	NA	NA	7.70	63.0
	9/6/2006	NA	NA	NA	7.79	106.0
	12/12/2006	NA	NA	NA	7.60	145.0
Downstream	2/15/2006	NA	NA	NA	6.12	108.0
	5/15/2006	NA	NA	NA	7.57	58.0
	9/6/2006	NA	NA	NA	7.93	111.0
	12/12/2006	NA	NA	NA	7.75	110.0

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS, GB WELLS

1st Quarter Sampling Event

Thomaston Landfill (Envrite)

2006 Annual Report

CTDEP CRITERIA (ug/L)					WELL	Date	MW-30	MW-31S	MW-33	MW-41S	MW-41D	MW-41B	MW-42S	MW-42S (dur)	MW-43S	MW-43D	MW-44D	MW-44B		
RVC	2 x RVC	IVC	2 x IVC	SWPC			341.71	2/15/06	2/15/06	2/15/06	2/15/06	2/15/06	2/15/06	2/15/06	2/15/06	2/15/06	2/15/06	2/15/06		
ug/L	ug/L	ug/L	ug/L	ug/L			Field Parameters													
					Depth to Water		16.65	15.36	17.80	12.16	11.17	14.97	18.34	18.34	17.80	18.00	16.56	18.18		
					Water Level Elevation (feet)		325.1	324.9	322.7	322.3	324.1	320.3	322.1	322.1	322.6	322.7	323.8	321.1		
					pH (standard units)		5.3	5.25	7.11	6.92	6.13	6.26	6.14	6.14	6.61	6.47	6.63	6.81		
					Specific Conductance ($\mu\text{mhos}/\text{cm}$)		258.00	1,362.00	67	340.00	375.00	922.00	854.00	854.00	1,720.00	2,120.00	3,050.00	1,904.00		
					Volatile Organic Compounds*															
6,500	13,000	16,000	32,000	62,000	1,1,1-Trichloroethane		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
1.8	3.6	54	108	110	1,1,2,2-Tetrachloroethane		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
220	440	2,900	5,800	1,260	1,1,2-Trichloroethane		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
3,000	6,000	41,000	82,000	NE	1,1-Dichloroethane		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
190	380	920	1,840	96	1,1-Dichloroethene		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
5,100	10,200	50,000	100,000	170,000	1,2-Dichlorobenzene		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
6.5	13	68	136	2,970	1,2-Dichloroethane		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
7.4	15	58	116	NE	1,2-Dichloropropane		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
4,300	8,600	50,000	100,000	26,000	1,3-Dichlorobenzene		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
1,400	2,800	3,400	6,800	26,000	1,4-Dichlorobenzene		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
NE	NE	NE	NE	NE	2-Chlorethyl vinyl ether		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
NE	NE	NE	NE	NE	Acrolein		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
NE	NE	NE	NE	NE	Acrylonitrile		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
130	260	310	620	710	Benzene		BDL	160	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
2.3	5	73	146	NE	Bromodichloromethane		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
75	150	2,300	4,600	10,800	Bromoform		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
NE	NE	NE	NE	NE	Bromomethane		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
5.3	11	14	28	132	Carbon Tetrachloride		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
1,800	3,600	23,000	46,000	420,000	Chlorobenzene		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
12,000	24,000	29,000	58,000	NE	Chloroethane		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
26	52	62	124	14,100	Chloroform		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
NE	NE	NE	NE	NE	Chloromethane		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
6	12	25	50	34,000	cis-1,3-Dichloropropene		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
NE	NE	NE	NE	NE	Dibromochloromethane		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
2,700	5,400	36,000	72,000	580,000	Ethylbenzene	23	4300	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
160	320	2,200	4,400	48,000	Methylene Chloride		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
340	680	810	1,620	88	Tetrachloroethylene		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	11		
7,100	14,200	41,000	82,000	4,000,000	Toluene	52	18000	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
1,000	2,000	13,000	26,000	NE	trans-1,2-Dichloroethene		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
6	12	25	50	34,000	trans-1,3-Dichloropropene		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
27	54	67	134	2,340	Trichloroethene	14	BDL	19	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	39		
NE	NE	NE	NE	NE	Trichlorofluoromethane		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	11		
1.6	3.2	52	104	15,750	Vinyl Chloride		BDL	520	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
					Metals															
NE	NE	NE	NE	NE	Barium, Dissolved	89	620	120	120	83	64	96	120	57	330	73	93			
NE	NE	NE	NE	6	Cadmium, Dissolved		BDL	8,800	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
NE	NE	NE	NE	110 (Cr VI)	Chromium, Dissolved		BDL	86	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
NE	NE	NE	NE	48	Copper, Dissolved		BDL	BDL	BDL	BDL	BDL	21	BDL	16	140	29	BDL			
NE	NE	NE	NE	NE	Iron, Dissolved	42	160,000	91	16	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
NE	NE	NE	NE	NE	Manganese, Dissolved	130	15,000	220	24	670	20	8	7	52	400	930	1,900			
NE	NE	NE	NE	880	Nickel, Dissolved		BDL	180	BDL	BDL	BDL	39	38	36	64	51	110			
NE	NE	NE	NE	NE	Sodium, Dissolved	12,000	58,000	170,000	27,000	28,000	31,000	65,000	61,000	120,000	160,000	190,000	160,000			
NE	NE	NE	NE	123	Zinc, Dissolved		320	2,400	93	180	120	84	240	250	160	540	280	750		
					Indicator Parameters															
NE	NE	NE	NE	NE	Ammonia Nitrogen	200	22,000	130	BDL	BDL	BDL	BDL	BDL	BDL	190	63	80			
NE	NE	NE	NE	NE	Chloride, Water	29,000	240,000	290,000	1,000,000	1,600,000	41,000	100,000	100,000	260,000	280,000	390,000	320,000			
NE	NE	NE	NE	NE	Dissolved Parameter Filtration		---	---	---	---	---	---	---	---	---	---	---			
NE	NE	NE	NE	NE	Method 624, Water		---	---	---	---	---	---	---	---	---	---	---			
NE	NE	NE	NE	52	Cyanide, Water		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL			
NE	NE	NE	NE	NE	Nitrate Nitrogen, Water	4,800	BDL	34,000	4,600	3,500	15,000	13,000	16,000	38,000	50,000	51,000	46,000			
NE	NE	NE	NE	NE	Nitrite Nitrogen, Water		BDL	BDL	BDL	BDL	200	BDL	BDL	BDL	BDL	BDL	BDL			
NE	NE	NE	NE	NE	Phenols, Water		BDL	1,500	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL			
NE	NE	NE	NE	NE	Sulfate, Water		BDL	410,000	330,000	BDL	BDL	300,000	170,000	160,000	220,000	260,000	310,000	270,000		
NE	NE	NE	NE	NE	Total Dissolved Solids, Water	140,000	1,400,000	1,100,000	190,000	190,000	690,000	480,000	470,000	960,000	1,000,000	1,300,000	1,200,000			
NE	NE	NE	NE	NE	Total Organic Carbon, Water	6,000	480,000	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL			
NE	NE	NE	NE	NE	Total Organic Halogens, Water		BDL	4,200	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	120	140		
NE	NE	NE	NE	NE	Total Suspended Solids	26,000	310,000	360,000	28,000	19,000	27,000	8,500	22,000	10,000	29,000	26,000	42,000			

Notes:

- I/VC Industrial Volatilization Criteria
 RVC Residential Volatilization Criteria
 SWPC Surface Water Protection Criteria
 NE Not established
 BDL Below Detection Limit
 * VOCs analyzed using Method 624
 ** VOCs analyzed using Method 624 as specified in Envrite's Post-Closure Plan

- ¹ Compliance with the IVC and RVC is demonstrated when the 95% UCL of the arithmetic mean of sample concentrations (for a minimum of 4 consecutive quarters) is less than or equal to the standard AND no single sample exceeds twice the standard.
 Compliance with the SWPC is demonstrated when the AVG of sample concentrations is less than or equal to the standard.
² Statistical analysis not able to be performed due to individual sample results greater than 2 times the RVC.
³ One half the detection limit used to calculate AVG if sample is BDL

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS, GB WELLS

2nd Quarter Sampling Event

Thomaston Landfill

2006 Annual Report

CTD&P CRITERIA (ug/L)					WELL	Date	Reference Elevation	MW-30	MW-31S	MW-33	MW-41S	MW-41D	MW-41B	MW-42S	MW-42S (dur)	MW-43S	MW-43D	MW-44D	MW-44B	
RVC	2 x RVC	IVC	2 x IVC	SWPC				5/15/06	5/15/06	5/15/06	5/15/06	5/15/06	5/15/06	5/15/06	5/15/06	5/15/06	5/15/06	5/15/06		
ug/L	ug/L	ug/L	ug/L	ug/L																
Field Parameters																				
					Depth to Water			15.20	13.50	15.30	10.45	4.42	11.42	16.57	16.57	16.85	16.00	14.38	17.12	
					Water Level Elevation (feet)			326.5	326.8	325.2	324.0	330.8	323.8	323.9	323.9	323.6	324.7	326.0	322.2	
					pH (standard units)			7.5	6.15	6.93	7.21	7.19	6.77	7.19	7.19	6.48	6.37	6.44	6.43	
					Specific Conductance ($\mu\text{mhos}/\text{cm}$)			103.00	1,754.00	771	294.00	455.00	1,038.00	518.00	518.00	1,448.00	1,744.00	2,140.00	3,320.00	
Volatile Organic Compounds ¹																				
6,500	13,000	16,000	32,000	62,000	1,1,1-Trichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
1.8	3.6	54	108	110	1,1,2,2-Tetrachloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
220	440	2,900	5,800	1,260	1,1,2-Trichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
3,000	6,000	41,000	82,000	NE	1,1-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
190	380	920	1,840	96	1,1-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
5,100	10,200	50,000	100,000	170,000	1,2-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
6.5	13	68	136	2,970	1,2-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
7.4	15	58	116	NE	1,2-Dichloropropane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
4,300	8,600	50,000	100,000	26,000	1,3-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
1,400	2,800	3,400	6,800	26,000	1,4-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
NE	NE	NE	NE	NE	2-Chloroethyl vinyl ether	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
NE	NE	NE	NE	NE	Acrolein	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
NE	NE	NE	NE	NE	Acrylonitrile	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
130	260	310	620	710	Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
2.3	5	73	146	NE	Bromodichloromethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
75	150	2,300	4,600	10,800	Bromoform	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
NE	NE	NE	NE	NE	Bromomethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
5.3	11	14	28	132	Carbon Tetrachloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
1,800	3,600	23,000	46,000	420,000	Chlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
12,000	24,000	29,000	58,000	NE	Chloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
26	52	62	124	14,100	Chloroform	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
NE	NE	NE	NE	NE	Chloromethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
6	12	25	50	34,000	cis-1,3-Dichloropropene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
NE	NE	NE	NE	1,020	Dibromo-chloromethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
2,700	5,400	36,000	72,000	580,000	Ethylbenzene	BDL	2300	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
160	320	2,200	4,400	48,000	Methylene Chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
340	680	810	1,620	88	Tetrachloroethylene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	11	BDL		
7,100	14,200	41,000	82,000	4,000,000	Toluene	BDL	10000	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
1,000	2,000	13,000	26,000	NE	trans-1,2-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
6	12	25	50	34,000	trans-1,3-Dichloropropene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
27	54	67	134	2,340	Trichloroethene	BDL	BDL	BDL	BDL	BDL	13	10	BDL	BDL	BDL	BDL	42	BDL		
NE	NE	NE	NE	NE	Trichlorofluoromethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
1.6	3.2	52	104	15,750	Vinyl Chloride	BDL	390	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
Metals																				
NE	NE	NE	NE	NE	Barium, Dissolved	7	150	55	56	52	49	38	30	28	24	29	93			
NE	NE	NE	NE	6	Cadmium, Dissolved	BDL	10,000	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL			
NE	NE	NE	NE	110 (Cr VI)	Chromium, Dissolved	BDL	89	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL			
NE	NE	NE	NE	48	Copper, Dissolved	BDL	BDL	BDL	BDL	BDL	BDL	15	15	13	130	18	BDL			
NE	NE	NE	NE	NE	Iron, Dissolved	BDL	120,000	44	14	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL			
NE	NE	NE	NE	880	Manganese, Dissolved	6	12,000	47	6,0	1,300	11	BDL	180	260	600	1,900				
NE	NE	NE	NE	123	Nickel, Dissolved	BDL	120	BDL	BDL	BDL	BDL	27	24	31	44	37	110			
NE	NE	NE	NE	NE	Sodium, Dissolved	1,600	55,000	77,000	22,000	33,000	32,000	38,000	42,000	170,000	190,000	210,000	160,000			
NE	NE	NE	NE	NE	Zinc, Dissolved	97	520	26	51	13	45	110	78	94	180	130	750			
Indicator Parameters																				
NE	NE	NE	NE	NE	Ammonia Nitrogen	BDL	22,000	BDL	BDL	BDL	BDL	BDL	BDL	BDL	54	280	BDL			
NE	NE	NE	NE	NE	Chloride, Water	1,900	250,000	130,000	31,000	49,000	93,000	61,000	65,000	260,000	280,000	380,000	89,000			
NE	NE	NE	NE	NE	Dissolved Parameter Filtration Method 624, Water		---	---	---	---	---	---	---	---	---	---				
NE	NE	NE	NE	NE	Cyanide, Water	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
NE	NE	NE	NE	NE	Nitrate Nitrogen, Water	780	34	17,000	2,900	6,000	17,000	9,100	8,900	51,000	53,000	60,000	1,400			
NE	NE	NE	NE	NE	Nitrite Nitrogen, Water	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL			
NE	NE	NE	NE	NE	Phenols, Water	8	1,800	20	14	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL			
NE	NE	NE	NE	NE	Sulfate, Water	BDL	520,000	180,000	BDL	80,000	260,000	96,000	98,000	200,000	240,000	330,000	BDL			
NE	NE	NE	NE	NE	Total Dissolved Solids, Water	26,000	1,800,000	570,000	170,000	280,000	710,000	350,000	360,000	1,100,000	1,200,000	1,400,000	240,000			
NE	NE	NE	NE	NE	Total Organic Carbon, Water	BDL	310,000	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL			
NE	NE	NE	NE	NE	Total Organic Halogens, Water	2,100	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	100	BDL			
NE	NE	NE	NE	NE	Total Suspended Solids	BDL	180,000	310,000	22,000	44,000	BDL	12,000	BDL	32,000	8,000	12,000	150,000			

Notes:

IVC Industrial Volatilization Criteria

RVC Residential Volatilization Criteria

SWPC Surface Water Protection Criteria

NE Not established

BDL Below Detection Limit

* VOCs analyzed using Method 624

¹ Compliance with the IVC and RVC is demonstrated when the 95% UCL of the arithmetic mean of sample concentrations (for a minimum of 4 consecutive quarters) is less than or equal to the standard AND no single sample exceeds twice the standard.

Compliance with the SWPC is demonstrated when the AVG of sample concentrations is less than or equal to the standard.

² Statistical analysis not able to be performed due to individual sample results greater than 2 times the RVC.

³ One half the detection limit used to calculate AVG if sample is BDL

⁴ VOCs analyzed using Method 624

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS, GB WELLS

3rd Quarter Sampling Event

Thomaston Landfill

2006 Annual Report

CTDEP CRITERIA (ug/L)					WELL Reference Elevation	Date	MW-30 9/6/06	MW-31S 9/6/06	MW-33 9/6/06	MW-41S 9/6/06	MW-41D 9/6/06	MW-41B 9/6/06	MW-42S 9/6/06	MW-42S (dur) 9/6/06	MW-43S 9/6/06	MW-43D 9/6/06	MW-44D 9/6/06	MW-44B 9/6/06
RVC	2x RVC	IVC	2x IVC	SWPC			341.71	340.30	340.49	334.41	335.26	335.26	340.43	340.43	340.43	340.65	340.33	339.28
ug/L	ug/L	ug/L	ug/L	ug/L	Field Parameters													
					Depth to Water		12.43	16.25	18.25	12.62	11.60	15.54	18.80	18.80	18.11	18.34	17.00	18.14
					Water Level Elevation (feet)		329.3	324.1	322.2	321.8	323.7	319.7	321.6	321.6	322.3	322.3	323.3	321.1
					pH (standard units)		7.6	6.33	6.82	6.23	6.51	6.82	6.75	6.75	6.25	5.35	5.80	6.44
					Specific Conductance (umhos/cm)		153.00	1,816.00	8920	413.00	586.00	1,074.00	460.00	460.00	1,787.00	1,967.00	3,010.00	2,040.00
Volatile Organic Compounds ¹																		
6,500	13,000	16,000	32,000	62,000	1,1,1-Trichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1.8	3.6	54	108	110	1,1,2,2-Tetrachloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
220	440	2,900	5,800	1,260	1,1,2-Trichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
3,000	6,000	41,000	82,000	NE	1,1-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
190	380	920	1,840	96	1,1,1-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
5,100	10,200	50,000	100,000	170,000	1,2-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
6.5	13	68	136	2,970	1,2-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
7.4	15	58	116	NE	1,2-Dichloropropane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
4,300	8,600	50,000	100,000	26,000	1,3-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,400	2,800	3,400	6,800	26,000	1,4-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
NE	NE	NE	NE	NE	2-Chloroethyl vinyl ether	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
NE	NE	NE	NE	NE	Acrolein	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
NE	NE	NE	NE	NE	Acrylonitrile	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
130	260	310	620	710	Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
2.3	5	73	146	NE	Bromodichloromethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
75	150	2,300	4,600	10,800	Bromoform	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
NE	NE	NE	NE	NE	Bromomethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
5.3	11	14	28	132	Carbon Tetrachloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,800	3,600	23,000	46,000	420,000	Chlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
12,000	24,000	29,000	58,000	NE	Chloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
26	52	62	124	14,100	Chloroform	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
NE	NE	NE	NE	NE	Chloromethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
6	12	25	50	34,000	cis-1,3-Dichloropropene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
NE	NE	NE	NE	NE	Dibromochloromethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
2,700	5,400	36,000	72,000	580,000	Ethybenzene	BDL	3200	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
160	320	2,200	4,400	48,000	Methylene Chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
340	680	810	1,620	88	Tetrachloroethylene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	11
7,100	14,200	41,000	82,000	4,000,000	Toluene	BDL	8500	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,000	2,000	13,000	26,000	NE	trans-1,2-Dichloroethene	BDL	26	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
6	12	25	50	34,000	trans-1,3-Dichloropropene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
27	54	67	134	2,340	Trichloroethene	BDL	11	BDL	BDL	BDL	13	BDL	BDL	BDL	BDL	BDL	44	BDL
NE	NE	NE	NE	NE	Trichlorofluoromethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1.6	3.2	52	104	15,750	Vinyl Chloride	BDL	260	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Metals																		
NE	NE	NE	NE	NE	Barium, Dissolved	5	130	18	62	52	56	38	40	27	32	35	33	
NE	NE	NE	NE	NE	Cadmium, Dissolved	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1	2	2	BDL	
NE	NE	NE	NE	NE	Chromium, Dissolved	BDL	63	5	BDL	BDL	1	BDL	BDL	BDL	BDL	BDL	BDL	BDL
NE	NE	NE	NE	NE	Copper, Dissolved	BDL	BDL	BDL	BDL	BDL	19	10	23	120	28	BDL		
NE	NE	NE	NE	NE	Iron, Dissolved	BDL	160,000	49	7	BDL	7	10	12	8	5	4	BDL	
NE	NE	NE	NE	NE	Manganese, Dissolved	1	13,000	BDL	5.0	1,300	BDL	12	11	300	170	810	1,900	
NE	NE	NE	NE	NE	Nickel, Dissolved	BDL	25	1	3	BDL	4	31	28	37	55	46	110	
NE	NE	NE	NE	NE	Sodium, Dissolved	4,800	70,000	15,000	23,000	33,000	36,000	49,000	43,000	380,000	980,000	1,000,000	1,400,000	1,400,000
NE	NE	NE	NE	NE	Zinc, Dissolved	110	170	2	37	13	26	93	100	110	160	150	750	
Indicator Parameters																		
NE	NE	NE	NE	NE	Ammonia Nitrogen	170	25,000	140	90	BDL	BDL	50	90	50	100	650	100	
NE	NE	NE	NE	NE	Chloride, Water	2,400	240,000	100,000	40,000	53,000	110,000	66,000	65,000	250,000	260,000	410,000	370,000	
NE	NE	NE	NE	NE	Dissolved Parameter Filtration Method 624, Water		—	—	—	—	—	—	—	—	—	—	—	
NE	NE	NE	NE	NE	Cyanide, Water	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
NE	NE	NE	NE	NE	Nitrate Nitrogen, Water	1,500	BDL	11,000	3,700	5,700	16,000	9,400	8,800	49,000	47,000	52,000	55,000	
NE	NE	NE	NE	NE	Nitrite Nitrogen, Water	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
NE	NE	NE	NE	NE	Phenols, Water	BDL	1,100	5	11	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
NE	NE	NE	NE	NE	Sulfate, Water	BDL	140,000	96,000	44,000	78,000	270,000	99,000	100,000	200,000	210,000	290,000	270,000	
NE	NE	NE	NE	NE	Total Dissolved Solids, Water	37,000	1,300,000	480,000	190,000	280,000	760,000	380,000	380,000	980,000	1,000,000	1,400,000	1,400,000	
NE	NE	NE	NE	NE	Total Organic Carbon, Water	BDL	300,000	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	27,000	
NE	NE	NE	NE	NE	Total Organic Halogens, Water	BDL	4,200	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	340	
NE	NE	NE	NE	NE	Total Suspended Solids	19,000	270,000	50,000	72,000	51,000	32,000	21,000	9,500	38,000	12,000	29,000	34,000	

Notes:

IVC Industrial Volatilization Criteria
 RVC Residential Volatilization Criteria
 SWPC Surface Water Protection Criteria
 NE Not established
 BDL Below Detection Limit

* VOCs analyzed using Method 624

¹ Compliance with the IVC and RVC is demonstrated when the 95% UCL of the arithmetic mean of sample concentrations (for a minimum of 4 consecutive quarters) is less than or equal to the standard AND no single sample exceeds twice the standard. Compliance with the SWPC is demonstrated when the AVG of sample concentrations is less than or equal to the standard.

² Statistical analysis not able to be performed due to individual sample results greater than 2 times the RVC.

³ One half the detection limit used to calculate AVG if sample is BDL

⁴ VOCs analyzed using Method 624 as specified in Envirite's Post-Closure Plan

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS, GB WELLS

4th Quarter Sampling Event

Thomaston Landfill

2006 Annual Report

CTDER/CRITERIA (ug/L)					WELL Reference Elevation	Date	MW-30	MW-31S	MW-33	MW-41S	MW-41D	MW-41B	MW-42S	MW-42S (dup)	MW-43S	MW-43D	MW-44D	MW-44B
RVC	2x RVC	IVC	2x IVC	SWPC			12/12/06	12/12/06	12/12/06	12/12/06	12/12/06	12/12/06	12/12/06	12/12/06	12/12/06	12/12/06	12/12/06	12/12/06
ug/L	ug/L	ug/L	ug/L	ug/L		341.71	349.30	340.49	334.41	335.26	335.26	340.43	340.43	340.43	340.65	340.65	340.33	339.28
Volatile Organic Compounds ¹																		
6,500	13,000	16,000	32,000	62,000	1,1,1-Trichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1.8	3.6	54	108	110	1,1,2-Tetrachloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
220	440	2,900	5,800	1,260	1,1,2-Trichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
3,000	6,000	41,000	82,000	NE	1,1-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
190	380	920	1,840	96	1,1-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
5,100	10,200	50,000	100,000	170,000	1,2-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
6.5	13	68	136	2,970	1,2-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
7.4	15	58	116	NE	1,2-Dichloropropane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
4,300	8,600	50,000	100,000	26,000	1,3-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,400	2,800	3,400	6,800	26,000	1,4-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
NE	NE	NE	NE	NE	2-Chloroethyl vinyl ether	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
NE	NE	NE	NE	NE	Acrolein	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
NE	NE	NE	NE	20	Acrylonitrile	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
130	260	310	620	710	Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
2.3	5	73	146	NE	Bromodichloromethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
75	150	2,300	4,600	10,800	Bromoform	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
NE	NE	NE	NE	NE	Bromomethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
5.3	11	14	28	132	Carbon Tetrachloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,800	3,600	23,000	46,000	420,000	Chlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
12,000	24,000	29,000	58,000	NE	Chloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
26	52	62	124	14,100	Chloroform	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
NE	NE	NE	NE	NE	Chloromethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
830	1,660	11,000	22,000	NE	cis-1,2-Dichloroethene	36	4100	BDL	6.8	26	54	5.5	5.2	8.4	33	63	65	
6	12	25	50	34,000	cis-1,3-Dichloropropene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
NE	NE	NE	NE	1,020	Dibromochloromethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
2,700	5,400	36,000	72,000	580,000	Ethylbenzene	BDL	4000	BDL	BDL	BDL	BDL	BDL						
160	320	2,200	4,400	48,000	Methylene Chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
340	680	810	1,620	88	Tetrachloroethylene	13	BDL	BDL	BDL	7.3	BDL	BDL	6.6	14	7.8	BDL		
7,100	14,200	41,000	82,000	4,000,000	Toluene	BDL	15000	BDL	BDL	BDL	BDL	7.9						
1,000	2,000	13,000	26,000	NE	trans-1,2-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
6	12	25	50	34,000	trans-1,3-Dichloropropene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
27	54	67	134	2,340	Trichloroethene	23	BDL	BDL	BDL	12	11	BDL	BDL	6.7	21	30	14	
NE	NE	NE	NE	NE	Trichlorofluoromethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
1.6	3.2	52	104	15,750	Vinyl Chloride	BDL	470	BDL	BDL	BDL	BDL							
8,700	17,400	48,000	96,000	NE	Xylenes	BDL	11300	BDL	BDL	BDL	BDL							
Metals																		
NE	NE	NE	NE	NE	Barium, Dissolved	29.0	176	49	54	42	52	31	31	25	21	30	35	
NE	NE	NE	NE	6	Cadmium, Dissolved	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
NE	NE	NE	NE	110 (Cr VI)	Chromium, Dissolved	BDL	61	BDL	BDL	BDL	BDL							
NE	NE	NE	NE	48	Copper, Dissolved	BDL	BDL	BDL	11	BDL	BDL	16	16	20	232	26	BDL	
NE	NE	NE	NE	NE	Iron, Dissolved	46	167,000	26	27	17	53	3	3	BDL	BDL	BDL	75	
NE	NE	NE	NE	NE	Manganese, Dissolved	374.0	13,000	64	8.0	1,120	55	BDL	BDL	99	366	818	1,610	
NE	NE	NE	NE	880	Nickel, Dissolved	BDL	180	BDL	BDL	BDL	19	24	23	60	36	93		
NE	NE	NE	NE	NE	Sodium, Dissolved	69,200	62,500	108,000	22,000	34,600	33,600	34,000	34,000	137,000	177,000	215,000	193,000	
NE	NE	NE	NE	123	Zinc, Dissolved	476	1,830	36	82	27	49	102	93	112	246	163	413	
Indicator Parameters																		
NE	NE	NE	NE	NE	Ammonia Nitrogen	1,600	47,000	130	50	70	80	40	50	60	240	380	170	
NE	NE	NE	NE	NE	Chloride, Water	96,000	220,000	170,000	34,000	55,000	120,000	56,000	56,000	230,000	280,000	380,000	380,000	
NE	NE	NE	NE	NE	Dissolved Parameter Filtration Method 624, Water	---	---	---	---	---	---	---	---	---	---	---		
NE	NE	NE	NE	52	Cyanide, Water	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
NE	NE	NE	NE	NE	Nitrate Nitrogen, Water	21,000	570	19,000	3,500	5,400	19,000	9,000	8,800	51,000	50,000	55,000	63,000	
NE	NE	NE	NE	NE	Nitrite Nitrogen, Water	BDL	BDL	BDL	BDL	BDL	190	BDL	BDL	BDL	BDL	BDL		
NE	NE	NE	NE	NE	Phenols, Water	BDL	1,460	BDL	BDL	167	124							
NE	NE	NE	NE	NE	Sulfate, Water	140,000	180,000	140,000	40,000	80,000	300,000	88,000	88,000	190,000	260,000	270,000	260,000	
NE	NE	NE	NE	NE	Total Dissolved Solids, Water	570,000	1,500,000	690,000	170,000	270,000	880,000	300,000	300,000	880,000	1,100,000	1,500,000	1,400,000	
NE	NE	NE	NE	NE	Total Organic Carbon, Water	3,000	380,000	2,300	3,600	2,800	2,600	3,300	2,500	2,400	2,500	2,600	3,300	
NE	NE	NE	NE	NE	Total Organic Halogens, Water	110	700	59	BDL	100	BDL	100	82	BDL	BDL	71	580	
NE	NE	NE	NE	NE	Total Suspended Solids	22,000	200,000	310,000	44,000	150,000	60,000	35,000	35,000	59,000	8,000	15,000	33,000	

Notes:

IVC Industrial Volatilization Criteria
 RVC Residential Volatilization Criteria
 SWPC Surface Water Protection Criteria
 NE Not established
 BDL Below Detection Limit

* VOCs analyzed using Method 624

¹ Compliance with the IVC and RVC is demonstrated when the 95% UCL of the arithmetic mean of sample concentrations (for a minimum of 4 consecutive quarters) is less than or equal to the standard AND no single sample exceeds twice the standard.

Compliance with the SWPC is demonstrated when the AVG of sample concentrations is less than or equal to the standard.

² Statistical analysis not able to be performed due to individual sample results greater than 2 times the RVC.³ One half the detection limit used to calculate AVG if sample is BDL⁴ VOCs analyzed using Method 624 as specified in Enviro's Post-Closure Plan

TABLE 3 - SUMMARY OF ANALYTICAL RESULTS, GA WELL (MW-36)

Thomaston Landfill
2006 Annual Report

GWPC	CTDEP CRITERIA (ug/L) ¹						Reference Elevation	WELL Date	MW-36	MW-36	MW-36	MW-36	
	2 x GWPC	RVC	2 x RVC	IVC	2 x IVC	SWPC			329	5/15/06	329	12/12/06	
ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L							
									Depth to Water	4.12	.362	5.55	3.95
									Water Level Elevation (feet)	324.88	325.38	323.45	325.05
									pH (standard units)	5.63	7.26	7.51	7.02
									Specific Conductance (μmhos/cm)	301	718	396	265
									Volatile Organic Compounds ²				
200	400	6,500	13,000	16,000	32,000	62,000			1,1,1-Trichloroethane	BDL	BDL	BDL	BDL
0.5	1	1.8	3.6	54	108	110			1,1,2,2-Tetrachloroethane	BDL	BDL	BDL	BDL
5	10	220	440	2,900	5,800	1,260			1,1,2-Trichloroethane	BDL	BDL	BDL	BDL
70	140	3,000	6,000	41,000	82,000	NE			1,1-Dichloroethane	BDL	BDL	BDL	BDL
7	14	190	380	920	1,840	96			1,1-Dichloroethene	BDL	BDL	BDL	BDL
600	1,200	5,100	10,200	50,000	100,000	170,000			1,2-Dichlorobenzene	BDL	BDL	BDL	BDL
1	2	6.5	13	68	136	2,970			1,2-Dichloroethane	BDL	BDL	BDL	BDL
5	10	7.4	15	58	116	NE			1,2-Dichloropropane	BDL	BDL	BDL	BDL
600	1,200	4,300	8,600	50,000	100,000	26,000			1,3-Dichlorobenzene	BDL	BDL	BDL	BDL
75	150	1,400	2,800	3,400	6,800	26,000			1,4-Dichlorobenzene	BDL	BDL	BDL	BDL
NE	NE	NE	NE	NE	NE	NE			2-Chloroethyl vinyl ether	BDL	BDL	BDL	BDL
NE	NE	NE	NE	NE	NE	NE			Acrolein	BDL	BDL	BDL	BDL
0.5	1	NE	NE	NE	NE	NE			Acrylonitrile	BDL	BDL	BDL	BDL
1	2	130	260	310	620	710			Benzene	BDL	BDL	BDL	BDL
0.56	1	2.3	5	73	146	NE			Bromodichloromethane	BDL	BDL	BDL	BDL
4	8	75	150	2,300	4,600	10,800			Bromoform	BDL	BDL	BDL	BDL
9.8	20	NE	NE	NE	NE	NE			Bromomethane	BDL	BDL	BDL	BDL
5	10	5.3	11	14	28	132			Carbon Tetrachloride	BDL	BDL	BDL	BDL
100	200	1,800	3,600	23,000	46,000	420,000			Chlorobenzene	BDL	BDL	BDL	BDL
NE	NE	12,000	24,000	29,000	58,000	NE			Chloroethane	BDL	BDL	BDL	BDL
6	12	26	52	62	124	14,100			Chloroform	BDL	BDL	BDL	BDL
2.7	5	NE	NE	NE	NE	NE			Chloromethane	BDL	BDL	BDL	BDL
0.5	1	6	12	25	50	34,000			cis-1,3-Dichloropropene	BDL	BDL	BDL	BDL
0.5	1	NE	NE	NE	NE	1,020			Dibromochloromethane	BDL	BDL	BDL	BDL
700	1,400	2,700	5,400	36,000	72,000	580,000			Ethylbenzene	BDL	BDL	BDL	BDL
5	10	160	320	2,200	4,400	48,000			Methylene Chloride	BDL	BDL	BDL	BDL
5	10	340	680	810	1,620	88			Tetrachloroethylene	BDL	BDL	BDL	BDL
1,000	2,000	7,100	14,200	41,000	82,000	4,000,000			Toluene	BDL	BDL	BDL	BDL
100	200	1,000	2,000	13,000	26,000	NE			trans-1,2-Dichloroethene	BDL	BDL	BDL	BDL
0.5	1	6	12	25	50	34,000			trans-1,3-Dichloropropene	BDL	BDL	BDL	BDL
5	10	27	54	67	134	2,340			Trichloroethene	BDL	BDL	BDL	BDL
1,300	2,600	NE	NE	NE	NE	NE			Trichlorofluoromethane	BDL	BDL	BDL	BDL
2	4	1.6	3.2	52	104	15,750			Vinyl Chloride	BDL	BDL	BDL	BDL
									Metals				
1,000	2,000	NE	NE	NE	NE	NE			Barium, Dissolved	84	56	50	44
5	10	NE	NE	NE	NE	6			Cadmium, Dissolved	BDL	BDL	3	BDL
50 (Cr total)	100	NE	NE	NE	NE	110 (Cr VI)			Chromium, Dissolved	BDL	BDL	BDL	BDL
1,300	2,600	NE	NE	NE	NE	48			Copper, Dissolved	BDL	BDL	2	BDL
NE	NE	NE	NE	NE	NE	NE			Iron, Dissolved	27	80	2	17
NE	NE	NE	NE	NE	NE	NE			Manganese, Dissolved	BDL	15	5	1
100	200	NE	NE	NE	NE	880			Nickel, Dissolved	BDL	BDL	6	9
NE	NE	NE	NE	NE	NE	NE			Sodium, Dissolved	33,000	42,000	47,000	41,100
5,000	10,000	NE	NE	NE	NE	123			Zinc, Dissolved	98	100	53	14
									Indicator Parameters				
NE	NE	NE	NE	NE	NE	NE			Ammonia Nitrogen	BDL	BDL	BDL	40
NE	NE	NE	NE	NE	NE	NE			Chloride, Water	49,000	62,000	70,000	11,000
200	400	NE	NE	NE	NE	52			Cyanide, Water	BDL	BDL	BDL	BDL
NE	NE	NE	NE	NE	NE	NE			Nitrate Nitrogen, Water	BDL	1,300	630	370
NE	NE	NE	NE	NE	NE	NE			Nitrite Nitrogen, Water	BDL	BDL	BDL	BDL
NE	NE	NE	NE	NE	NE	NE			Phenols, Water	BDL	32	BDL	BDL
NE	NE	NE	NE	NE	NE	NE			Sulfate, Water	BDL	BDL	53,000	9,500
NE	NE	NE	NE	NE	NE	NE			Total Dissolved Solids, Water	190,000	250,000	220,000	190,000
NE	NE	NE	NE	NE	NE	NE			Total Organic Carbon, Water	BDL	BDL	BDL	1,100
NE	NE	NE	NE	NE	NE	NE			Total Organic Halogens, Water	BDL	BDL	BDL	65
NE	NE	NE	NE	NE	NE	NE			Total Suspended Solids	57,000	120,000	14,000	**

Notes:

GWPS Ground Water Protection Standard
 IVC Industrial Volatilization Criteria
 RVC Residential Volatilization Criteria
 SWPC Surface Water Protection Criteria
 NE Not Established
 BDL Below Detection Limit

¹ Compliance with the IVC and RVC is demonstrated when the 95% UCL of the arithmetic mean of sample concentrations (for a minimum of 4 consecutive quarters) is less than or equal to the standard AND no single sample exceeds twice the standard. Compliance with the SWPC is demonstrated when the AVG of sample concentrations is less than or equal to the standard.

²VOCs analyzed using Method 624 as specified in Envirite's Post-Closure Plan

³ Branch Brook flooded, MW-36 inaccessible

^{**} Due to laboratory error, no TSS result for MW-36

TABLE 4 - ARITHMETIC AVERAGES COMPARED TO SWPC

Thomaston Landfill
2006 Annual Report

Volatile Organic Compounds ¹	SWPC	AVG ²
1,1,1-Trichloroethane	62,000	BDL
1,1,2,2-Tetrachloroethane	110	BDL
1,1,2-Trichloroethane	1,260	BDL
1,1-Dichloroethane	NE	NA
1,1-Dichloroethene	96	BDL
1,2-Dichlorobenzene	170,000	BDL
1,2-Dichloroethane	2,970	BDL
1,2-Dichloropropane	NE	NA
1,3-Dichlorobenzene	26,000	BDL
1,4-Dichlorobenzene	26,000	BDL
2-Chloroethyl vinyl ether	NE	NA
Acrolein	NE	NA
Acrylonitrile	20	BDL
Benzene	710	8.0
Bromodichloromethane	NE	NA
Bromoform	10,800	BDL
Bromomethane	NE	NA
Carbon Tetrachloride	132	BDL
Chlorobenzene	420,000	BDL
Chloroethane	NE	NA
Chloroform	14,100	BDL
Chloromethane	NE	NA
cis-1,2-Dichloroethene	NE	NA
cis-1,3-Dichloropropene	34,000	BDL
Dibromochloromethane	1,020	BDL
Ethylbenzene	580,000	270.3
Methylene Chloride	48,000	BDL
Tetrachloroethylene	88	5.8
Toluene	4,000,000	996.0
trans-1,2-Dichloroethene	NE	NA
trans-1,3-Dichloropropene	34,000	BDL
Trichloroethene	2,340	9.8
Trichlorofluoromethane	NE	NA
Vinyl Chloride	15,750	36.2
Xylenes	NE	NA

Inorganics	SWPC	AVG
Barium, Dissolved	NE	NA
Cadmium, Dissolved	6	0.5
Chromium, Dissolved	110 (Cr VI)	4.6
Copper, Dissolved	48	17.7
Iron, Dissolved	NE	NA
Manganese, Dissolved	NE	NA
Nickel, Dissolved	880	32.6
Sodium, Dissolved	NE	NA
Zinc, Dissolved	123	251.8

Indicator Parameters	SWPC	AVG
Ammonia Nitrogen	NE	NA
Chloride, Water	NE	NA
Method 624, Water	NE	NA
Cyanide, Water	52	NA
Nitrate Nitrogen, Water	NE	NA
Nitrite Nitrogen, Water	NE	NA
Phenols, Water	NE	NA
Sulfate, Water	NE	NA
Total Dissolved Solids, Water	NE	NA
Total Organic Carbon, Water	NE	NA
Total Organic Halogens, Water	NE	NA
Total Suspended Solids	NE	NA

Bold = AVG above SWPC

BDL = Below Detection Limits (i.e. No Detections)

NE = None Established

¹ Compliance with the SWPC is demonstrated when the AVG of sample concentrations is less than or equal to the standard

² VOCs analyzed using Method 624 as specified in Envirite's Post-Closure Plan

TABLE 5 - SUMMARY OF DETECTIONS ABOVE THE COMPARISON CRITERIA

Thomaston Landfill
2006 Annual Report

Benzene

RVC: 130 ug/l IVC: 310 ug/l SWPC: 710 ug/l		
Well	Date	Concentration
MW-31S	2/15/2006	160

Ethylbenzene

RVC: 2,700 ug/l IVC: 36,000 ug/l SWPC: 580,000 ug/l		
Well	Date	Concentration
MW-31S	2/15/2006	4300
	9/6/2006	3200
	12/12/2006	4000

Cadmium

SWPC: 6 ug/l		
Well	Date	Concentration
MW-31S	2/15/2006	8.8
	5/15/2006	10

Copper

SWPC: 48 ug/l		
Well	Date	Concentration
MW-43D	2/15/2006	140
	5/15/2006	130
	9/6/2006	120
	12/12/2006	232

Trichloroethene

RVC: 27 ug/l IVC: 67 ug/l SWPC: 2,340 ug/l		
Well	Date	Concentration
MW-44D	2/15/2006	39
	5/15/2006	42
	9/6/2006	44
	12/12/2006	40

Vinyl Chloride

RVC: 1.6 ug/l IVC: 52 ug/l SWPC: 15,750 ug/l		
Well	Date	Concentration
MW-31S	2/15/2006	520
	5/15/2006	390
	9/6/2006	260
	12/12/2006	470

Toluene

RVC: 7,100 ug/l IVC: 41,000 ug/l SWPC: 4,000,000 ug/l		
Well	Date	Concentration
MW-31S	2/15/2006	18000
	5/15/2006	10000
	9/6/2006	8500
	12/12/2006	15000

Cis-1,2-Dichloroethene

RVC: 30 ug/l IVC: 11,000 ug/l		
Well	Date	Concentration
MW-31S	12/12/2006	4100

Zinc

SWPC: 123 ug/l		
Well	Date	Concentration
MW-30	2/15/06	320
	12/12/2006	476
	2/15/06	2,400
	5/15/2006	520
	9/6/2006	170
	12/12/2006	1,830
	MW-36	53,000
	MW-41S	180
	MW-42S	240
	MW-42S (dup)	250
MW-43D	2/15/06	540
	5/15/2006	180
	9/6/2006	160
	12/12/2006	246
	MW-43S	160
MW-44B	2/15/06	750
	5/15/2006	750
	9/6/2006	750
	12/12/2006	413
MW-44D	2/15/06	280
	5/15/2006	130
	9/6/2006	150
	12/12/2006	163

TABLE 6 - STATISTICAL ANALYSIS OF BENZENE
Thomaston Landfill (Envirite)
2006 Annual Report

Benzene - Log Normally Distributed
 RVC: 130 ug/L IVC: 310 ug/L

$$UCL = e^{(\bar{y} + 1.5s^2 + sH / \sqrt{n-1})}$$

WELL	Date	Result (ug/L)	x (If BDL use 1/2 Detection Limit)	ln(x)=y	y2
MW-30	2/15/06	BDL	5	1.609	2.590
MW-31s	2/15/06	160	160	5.075	25.757
MW-33	2/15/06	BDL	5	1.609	2.590
MW-41S	2/15/06	BDL	5	1.609	2.590
MW-41D	2/15/06	BDL	5	1.609	2.590
MW-41B	2/15/06	BDL	5	1.609	2.590
MW-42S	2/15/06	BDL	5	1.609	2.590
MW-42S (dup)	2/15/06	BDL	5	1.609	2.590
MW-43S	2/15/06	BDL	5	1.609	2.590
MW-43D	2/15/06	BDL	5	1.609	2.590
MW-44D	2/15/06	BDL	5	1.609	2.590
MW-44B	2/15/06	BDL	5	1.609	2.590
MW-36	2/15/06	BDL	5	1.609	2.590
MW-30	5/15/06	BDL	5	1.609	2.590
MW-31S	5/15/06	BDL	5	1.609	2.590
MW-33	5/15/06	BDL	5	1.609	2.590
MW-41S	5/15/06	BDL	5	1.609	2.590
MW-41D	5/15/06	BDL	5	1.609	2.590
MW-41B	5/15/06	BDL	5	1.609	2.590
MW-42S	5/15/06	BDL	5	1.609	2.590
MW-42S (dup)	5/15/06	BDL	5	1.609	2.590
MW-43S	5/15/06	BDL	5	1.609	2.590
MW-43D	5/15/06	BDL	5	1.609	2.590
MW-44D	5/15/06	BDL	5	1.609	2.590
MW-44B	5/15/06	BDL	5	1.609	2.590
MW-36	5/15/06	BDL	5	1.609	2.590
MW-30	9/6/06	BDL	5	1.609	2.590
MW-31S	9/6/06	BDL	5	1.609	2.590
MW-33	9/6/06	BDL	5	1.609	2.590
MW-41S	9/6/06	BDL	5	1.609	2.590
MW-41D	9/6/06	BDL	5	1.609	2.590
MW-41B	9/6/06	BDL	5	1.609	2.590
MW-42S	9/6/06	BDL	5	1.609	2.590
MW-42S (dup)	9/6/06	BDL	5	1.609	2.590
MW-43S	9/6/06	BDL	5	1.609	2.590
MW-43D	9/6/06	BDL	5	1.609	2.590
MW-44D	9/6/06	BDL	5	1.609	2.590
MW-44B	9/6/06	BDL	5	1.609	2.590
MW-36	9/6/06	BDL	5	1.609	2.590
MW-30	12/12/06	BDL	5	1.609	2.590
MW-31S	12/12/06	BDL	5	1.609	2.590
MW-33	12/12/06	BDL	5	1.609	2.590
MW-41S	12/12/06	BDL	5	1.609	2.590
MW-41D	12/12/06	BDL	5	1.609	2.590
MW-41B	12/12/06	BDL	5	1.609	2.590
MW-42S	12/12/06	BDL	5	1.609	2.590
MW-42S (dup)	12/12/06	BDL	5	1.609	2.590
MW-43S	12/12/06	BDL	5	1.609	2.590
MW-43D	12/12/06	BDL	5	1.609	2.590
MW-44D	12/12/06	BDL	5	1.609	2.590
MW-44B	12/12/06	BDL	5	1.609	2.590
MW-36	12/12/06	BDL	5	1.609	2.590

95 % UCL

Number of Samples (n) 52
 Mean of Data (x-bar) 7.98
 Sum Y 87.16
 Sum Y² 157.86 ug/L

Standard Deviation (s) 0.48
 student-t (Reference Tables) 1.876
 95% Upper Confidence Level 8.11

TABLE 7 - STATISTICAL ANALYSIS OF ETHYLBENZENE

**Thomaston Landfill (Envirite)
2006 Annual Report**

Ethylbenzene - Log Normally Distributed
RVC: 2,700 ug/L IVC: 36,000 ug/L

$$UCL = e^{(\bar{y} + 1.5 s^2 + sH / \sqrt{n-1})}$$

WELL	Date	Result (ug/L)	x (If BDL use 1/2 Detection Limit)	ln(x)=y	y2
MW-30	2/15/06	23	23	3.135	9.831
MW-31s	2/15/06	4300	4300	8.366	69.996
MW-33	2/15/06	BDL	5	1.609	2.590
MW-41S	2/15/06	BDL	5	1.609	2.590
MW-41D	2/15/06	BDL	5	1.609	2.590
MW-41B	2/15/06	BDL	5	1.609	2.590
MW-42S	2/15/06	BDL	5	1.609	2.590
MW-42S (dup)	2/15/06	BDL	5	1.609	2.590
MW-43S	2/15/06	BDL	5	1.609	2.590
MW-43D	2/15/06	BDL	5	1.609	2.590
MW-44D	2/15/06	BDL	5	1.609	2.590
MW-44B	2/15/06	BDL	5	1.609	2.590
MW-36	2/15/06	BDL	5	1.609	2.590
MW-30	5/15/06	BDL	5	1.609	2.590
MW-31S	5/15/06	2300	2300	7.741	59.918
MW-33	5/15/06	BDL	5	1.609	2.590
MW-41S	5/15/06	BDL	5	1.609	2.590
MW-41D	5/15/06	BDL	5	1.609	2.590
MW-41B	5/15/06	BDL	5	1.609	2.590
MW-42S	5/15/06	BDL	5	1.609	2.590
MW-42S (dup)	5/15/06	BDL	5	1.609	2.590
MW-43S	5/15/06	BDL	5	1.609	2.590
MW-43D	5/15/06	BDL	5	1.609	2.590
MW-44D	5/15/06	BDL	5	1.609	2.590
MW-44B	5/15/06	BDL	5	1.609	2.590
MW-36	5/15/06	BDL	5	1.609	2.590
MW-30	9/6/06	BDL	5	1.609	2.590
MW-31S	9/6/06	3200	3200	8.071	65.140
MW-33	9/6/06	BDL	5	1.609	2.590
MW-41S	9/6/06	BDL	5	1.609	2.590
MW-41D	9/6/06	BDL	5	1.609	2.590
MW-41B	9/6/06	BDL	5	1.609	2.590
MW-42S	9/6/06	BDL	5	1.609	2.590
MW-42S (dup)	9/6/06	BDL	5	1.609	2.590
MW-43S	9/6/06	BDL	5	1.609	2.590
MW-43D	9/6/06	BDL	5	1.609	2.590
MW-44D	9/6/06	BDL	5	1.609	2.590
MW-44B	9/6/06	BDL	5	1.609	2.590
MW-36	9/6/06	BDL	5	1.609	2.590
MW-30	12/12/06	BDL	5	1.609	2.590
MW-31S	12/12/06	4000	4000	8.294	68.791
MW-33	12/12/06	BDL	5	1.609	2.590
MW-41S	12/12/06	BDL	5	1.609	2.590
MW-41D	12/12/06	BDL	5	1.609	2.590
MW-41B	12/12/06	BDL	5	1.609	2.590
MW-42S	12/12/06	BDL	5	1.609	2.590
MW-42S (dup)	12/12/06	BDL	5	1.609	2.590
MW-43S	12/12/06	BDL	5	1.609	2.590
MW-43D	12/12/06	BDL	5	1.609	2.590
MW-44D	12/12/06	BDL	5	1.609	2.590
MW-44B	12/12/06	BDL	5	1.609	2.590
MW-36	12/12/06	BDL	5	1.609	2.590

95 % UCL

Number of Samples (n)	52
Mean of Data (x-bar)	270.35
Sum Y	111.25
Sum Y ²	395.42
	ug/L

Standard Deviation (s)	1.76
student-t (Reference Tables)	3.2
95% Upper Confidence Level	271.13

TABLE 8 - STATISTICAL ANALYSIS OF TRICHLOROETHENE
Thomaston Landfill (Envirite)
2006 Annual Report

 Trichloroethene - Normally Distributed
 RVC: 27 ug/L IVC: 67 ug/L

$$UCL = \bar{x} + t(s / \sqrt{n})$$

WELL	Date	Result (ug/L)	x (If BDL use 1/2 Detection Limit)
MW-30	2/15/06	14	14
MW-31S	2/15/06	BDL	5
MW-33	2/15/06	19	19
MW-41S	2/15/06	BDL	5
MW-41D	2/15/06	BDL	5
MW-41B	2/15/06	BDL	5
MW-42S	2/15/06	BDL	5
MW-42S (dup)	2/15/06	BDL	5
MW-43S	2/15/06	BDL	5
MW-43D	2/15/06	BDL	5
MW-44D	2/15/06	39	39
MW-44B	2/15/06	11	11
MW-36	2/15/06	BDL	5
MW-30	5/15/06	BDL	5
MW-31S	5/15/06	BDL	5
MW-33	5/15/06	BDL	5
MW-41S	5/15/06	BDL	5
MW-41D	5/15/06	13	13
MW-41B	5/15/06	10	10
MW-42S	5/15/06	BDL	5
MW-42S (dup)	5/15/06	BDL	5
MW-43S	5/15/06	BDL	5
MW-43D	5/15/06	BDL	5
MW-44D	5/15/06	42	42
MW-44B	5/15/06	BDL	5
MW-36	5/15/06	BDL	5
MW-30	9/6/06	11	11
MW-31S	9/6/06	BDL	5
MW-33	9/6/06	BDL	5
MW-41S	9/6/06	BDL	5
MW-41D	9/6/06	13	13
MW-41B	9/6/06	BDL	5
MW-42S	9/6/06	BDL	5
MW-42S (dup)	9/6/06	BDL	5
MW-43S	9/6/06	BDL	5
MW-43D	9/6/06	BDL	5
MW-44D	9/6/06	44	44
MW-44B	9/6/06	BDL	5
MW-36	9/6/06	BDL	5
MW-30	12/12/06	23	23
MW-31S	12/12/06	BDL	5
MW-33	12/12/06	BDL	5
MW-41S	12/12/06	BDL	5
MW-41D	12/12/06	12	12
MW-41B	12/12/06	11	11
MW-42S	12/12/06	BDL	5
MW-42S (dup)	12/12/06	BDL	5
MW-43S	12/12/06	6.7	6.7
MW-43D	12/12/06	21	21
MW-44D	12/12/06	30	30
MW-44B	12/12/06	14	14
MW-36	12/12/06	BDL	5

95 % UCL
 Number of Samples (n) 52
 Mean of Data (x-bar) 9.78

 Standard Deviation (s) 9.63
 student-t (Reference Tables) 1.671

 95% Upper Confidence Level **12.01** ug/L

TABLE 9 - SUMMARY OF ANALYTICAL RESULTS, BRANCH BROOK (SURFACE WATER) ¹

Thomaston Landfill (Envirite)
2006 Annual Report

CTDEP Class A Surface Water Criteria ² Aquatic Life Criteria Human Health Criteria				Branch Brook Sample Date 2/15/06	SW-DN 2/15/06	SW-UP 2/15/06	SW-DN 5/15/06	SW-UP 5/15/06	SW-DN 9/6/06	SW-UP 9/6/06	SW-DN 12/1/06	SW-UP 12/2/06
Acute ug/L	Chronic ug/L	Organisms Only ug/L	Water and ug/L		pH	6.12	6.85	7.57	7.70	7.93	7.79	7.75
				Specific Conductivity	108	99	58	63	111	106	110	145
ug/L	ug/L	ug/L	ug/L	Volatile Organic Compounds	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
NE	NE	NE	NE	1,1,1-Trichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
NE	NE	11	0.17	1,1,2-Tetrachloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
NE	NE	42	0.6	1,1,2-Trichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
NE	NE	NE	NE	1,1-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
NE	NE	3.2	0.057	1,1-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
NE	NE	17,000	2,700	1,2-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
NE	NE	99	0.38	1,2-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
NE	NE	39	0.52	1,2-Dichloropropane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
NE	NE	2,600	400	1,3-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
NE	NE	2,600	400	1,4-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
NE	NE	NE	NE	2-Chloroethyl vinyl ether	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
NE	NE	780	320	Acrolein	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
NE	NE	0.66	0.059	Acrylonitrile	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
NE	NE	71	1.2	Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
NE	NE	46	0.56	Bromodichloromethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
NE	NE	360	4.3	Bromoform	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
NE	NE	NE	NE	Bromomethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
NE	NE	4.4	0.25	Carbon Tetrachloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
NE	NE	21,000	100	Chlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
NE	NE	NE	NE	Chloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
NE	NE	470	5.7	Chloroform	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
NE	NE	NE	NE	Chloromethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
NE	NE	1,700	10	cis-1,3-Dichloropropene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
NE	NE	34	0.41	Dibromochloromethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
NE	NE	29,000	700	Ethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
NE	NE	1,600	4.7	Methylene Chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
NE	NE	8.85	0.8	Tetrachloroethylene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
NE	NE	200,000	1,000	Toluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
NE	NE	140,000	100	trans-1,2-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
NE	NE	1,700	10	trans-1,3-Dichloropropene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
NE	NE	81	2.7	Trichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
NE	NE	NE	NE	Trichlorofluoromethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
NE	NE	525	2	Vinyl Chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
				Metals								
NE	NE	NE	NE	Barium, Dissolved	91.0	89.0	8.4	7.9	8.0	8.0	11.0	10.0
2.02	1.35	10,769	5	Cadmium, Dissolved	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
16 (Cr VI)	11 (Cr VI)	2019 (Cr VI)	100 (Cr VI)	Chromium, Dissolved	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
14.3	4.8	NE	1,300	Copper, Dissolved ^d	BDL	BDL	BDL	BDL	BDL	BDL	2	BDL
NE	NE	NE	NE	Iron, Dissolved	BDL	BDL	89	66	140	130	182	159
260.5	28.9	4,600	610	Manganese, Dissolved	49	47	15	11	2	BDL	56	48
NE	NE	NE	NE	Nickel, Dissolved	BDL	BDL	BDL	BDL	BDL	BDL	3	2
65	65	68,740	9,100	Sodium, Dissolved	8,500	7,900	4,700	4,500	7,800	7,400	7,910	7,130
				Zinc, Dissolved	72.0	77.0	7.1	BDL	3.0	3.0	8.0	8.0
				Indicator Parameters								
see footnote 4(a)	see footnote 4 (b,c)	NE	NE	Ammonia Nitrogen	BDL	BDL	BDL	BDL	50	60	190	40
NE	NE	NE	NE	Chloride, Water	4,400	2,500	6,000	BDL	7,800	7,500	11,000	11,000
22	5.2	220,000	200	Cyanide, Water	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
NE	NE	NE	NE	Nitrate Nitrogen, Water	BDL	BDL	99	170	110	80	330	320
NE	NE	NE	NE	Nitrite Nitrogen, Water	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
NE	NE	NE	NE	Phenols, Water	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
NE	NE	NE	NE	Sulfate, Water	BDL	BDL	BDL	BDL	7,500	800	9,500	9,400
NE	NE	NE	NE	Total Dissolved Solids, Water	69,000	63,000	48,000	50,000	62,000	85,000	58,000	54,000
NE	NE	NE	NE	Total Organic Carbon, Water	BDL	BDL	BDL	BDL	BDL	BDL	3,100	2,600
NE	NE	NE	NE	Total Organic Halogens, Water	BDL	BDL	BDL	BDL	BDL	BDL	16	BDL
NE	NE	NE	NE	Total Suspended Solids	BDL	BDL	6,000	13,000	20,000	12,000	5,500	BDL

Notes:

CTDEP Connecticut Department of Environmental Protection
NE Not established
BDL Below Detection Limit

Footnotes:

¹ Samples were collected from Branch Brook, a Class B/A surface water and therefore is required to meet CTDEP Class A surface water quality standards (footnote 2).

² Class A Surface Waters are designated for: habitat for fish and other aquatic life and wildlife; potential drinking water supplies; recreation; navigation; and water supply for industry and agriculture (State of Connecticut Surface Water Quality Standards, Effective December 17, 2002)

³ Biological integrity is impaired when the ambient concentration exceeds the acute value on more than 5% of the year and the chronic value more than 50% of the year.

⁴ The criteria for ammonia (mg/L as N) vary in response to ambient surface water temperature (T, degrees C) and pH. Biological integrity is considered impaired when:

a. The one-hour average concentration of total ammonia exceeds:

$$[0.275 / 1 + 10^{(T-20)(-2)}] + [39 / (1 + 10^{(pH-7.2)})]$$

when salmonids are present

- or -

$$[0.411 / 1 + 10^{(T-20)(-2)}] + [58.4 / (1 + 10^{(pH-7.2)})]$$

when salmonids are absent

b. The four-day average concentration of total ammonia exceeds 2.5 times the value obtained from the formula (c) below.

c. The 30-day average concentration of total ammonia exceeds:

$$[0.0577 / 1 + 10^{(T-20)(-2)}] + [2.487 / 1 + 10^{(pH-7.2)(-2)}] \times [\min(2.05, 1.45 \cdot 10^{(0.02625 \cdot T - 1.7)})]$$

when early life stages are present

- or -

$$[0.0577 / 1 + 10^{(T-20)(-2)}] + [2.487 / 1 + 10^{(pH-7.2)(-2)}] \times [1.45 \cdot 10^{(0.02625 \cdot T - 1.7)}]$$

when early life stages are absent

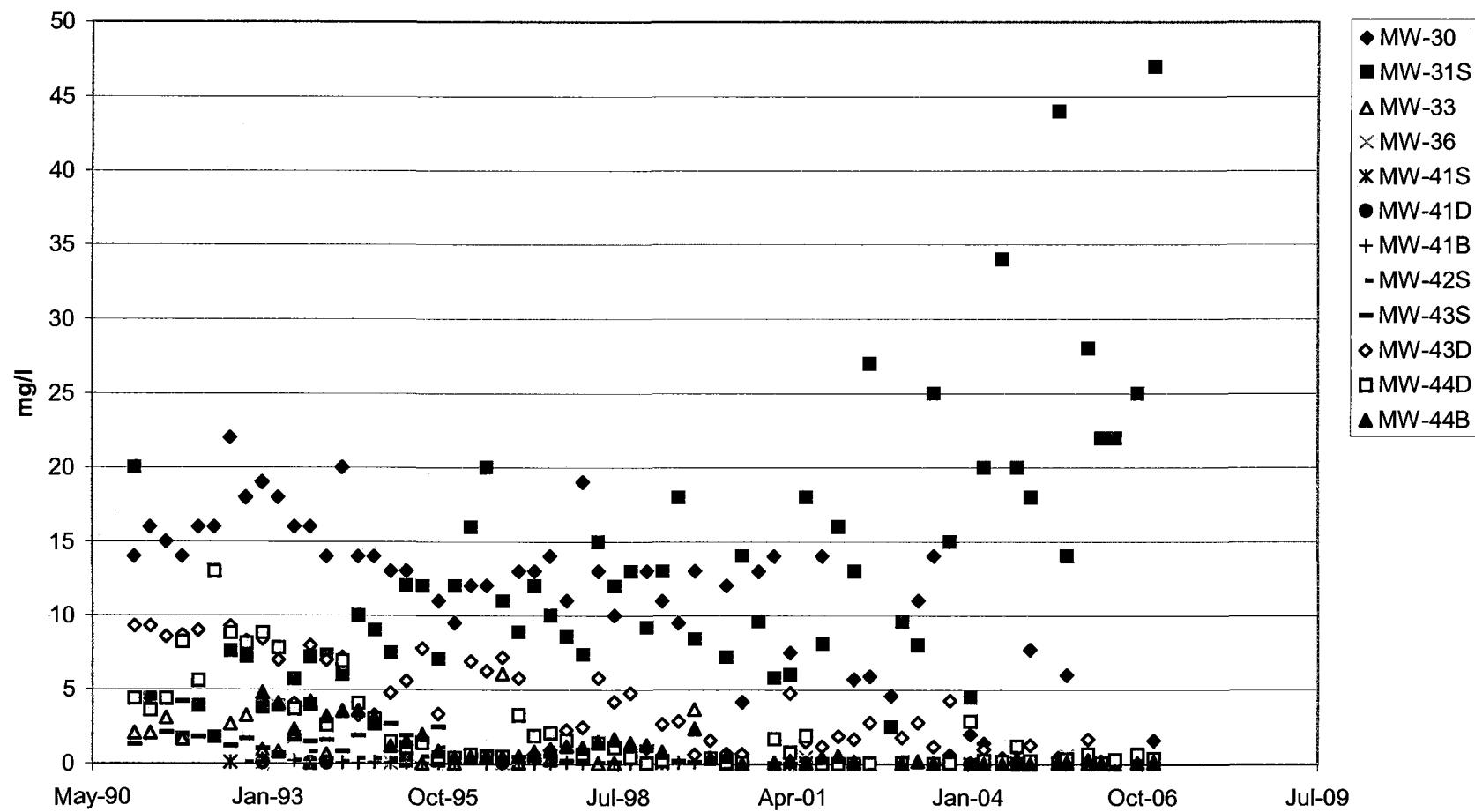
TABLE 10 - SUMMARY OF ANALYTICAL RESULTS, QA/QC SAMPLES

Thomaston Landfill (Envirite)
2006 Annual Report

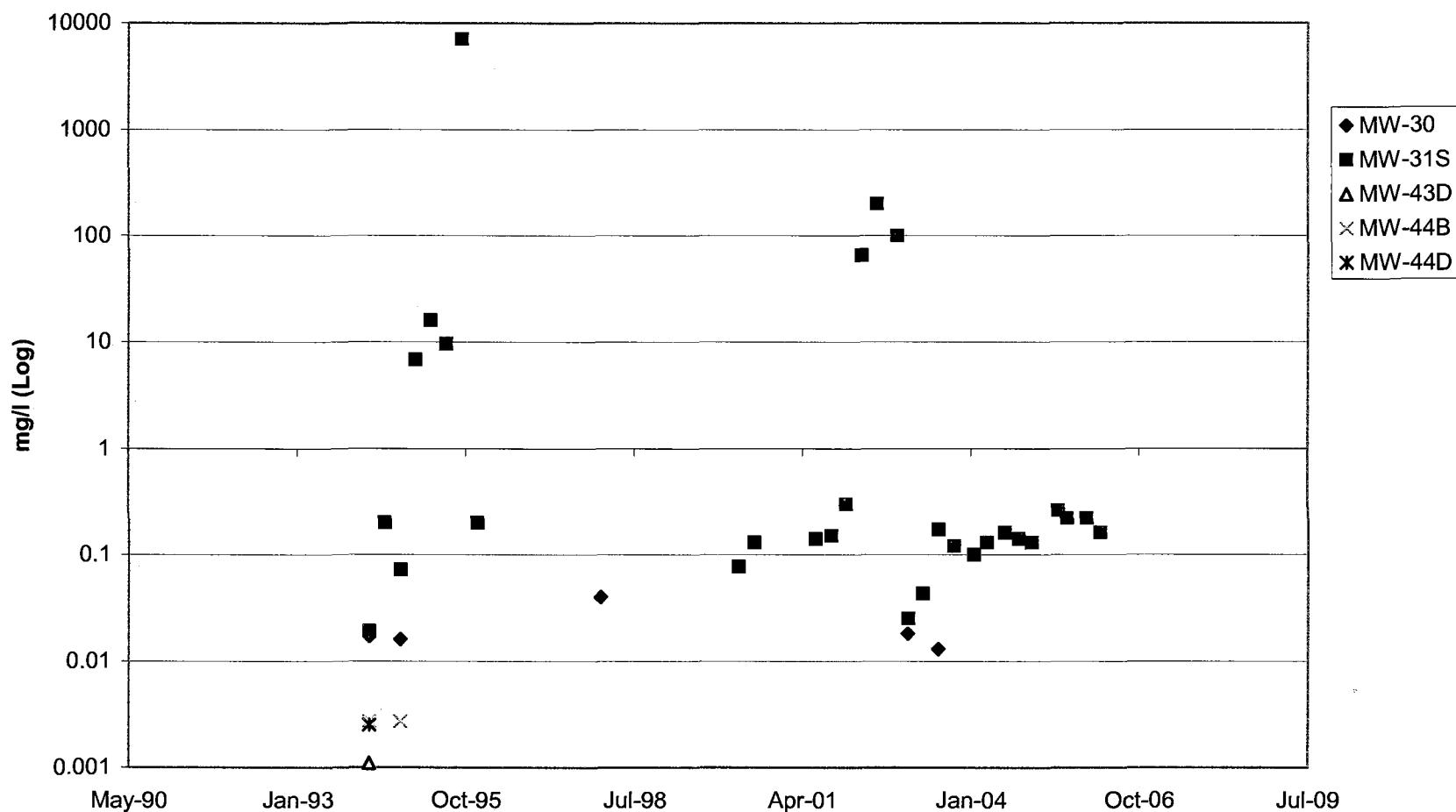
Sample Description	Equipment Blank 2/15/06	Field Blank 2/15/06	Trip Blank 2/15/06	Equipment Blank 5/15/06	Field Blank 5/15/06	Trip Blank 5/15/06	Equipment Blank 9/6/06	Field Blank 9/6/06	Trip Blank 9/6/06	Equipment Blank 12/13/06	Field Blank 12/13/06	Trip Blank 12/13/06
	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Volatile Organic Compounds												
1,1,1-Trichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1,2-Tetrachloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1,2-Trichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,2-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,2-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,2-Dichloropropane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,3-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,4-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
2-Chloroethyl vinyl ether	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Acrolein	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Acrylonitrile	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Bromodichloromethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Bromoform	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Bromomethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Carbon Tetrachloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chloroform	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chloromethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
cis-1,3-Dichloropropene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Dibromochloromethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Ethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Methylene Chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Tetrachloroethylene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
trans-1,2-Dichlorethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
trans-1,3-Dichloropropene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Trichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Trichlorofluoromethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Vinyl Chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Metals												
Barium, Dissolved	46.0	47.0	NT	BDL	BDL	NT	BDL	BDL	NT	BDL	BDL	NT
Cadmium, Dissolved	BDL	BDL	NT	BDL	BDL	NT	BDL	BDL	NT	BDL	BDL	NT
Chromium, Dissolved	BDL	BDL	NT	BDL	BDL	NT	BDL	BDL	NT	BDL	BDL	NT
Copper, Dissolved	BDL	BDL	NT	BDL	BDL	NT	BDL	BDL	NT	BDL	BDL	NT
Iron, Dissolved	BDL	BDL	NT	BDL	BDL	NT	2	BDL	NT	7	2	NT
Manganese, Dissolved	BDL	BDL	NT	BDL	BDL	NT	BDL	BDL	NT	BDL	BDL	NT
Nickel, Dissolved	BDL	BDL	NT	BDL	BDL	NT	BDL	BDL	NT	1	BDL	NT
Sodium, Dissolved	1,300	1,400	NT	31	25	NT	44	160	NT	BDL	143	NT
Zinc, Dissolved	31	31	NT	31	25	NT	5	5	NT	8	3	NT
Indicator Parameters												
Ammonia Nitrogen	BDL	BDL	NT	BDL	BDL	NT	110	BDL	NT	20	BDL	NT
Chloride, Water	BDL	BDL	NT	BDL	76,000	NT	140	BDL	NT	BDL	BDL	NT
Cyanide, Water	BDL	BDL	NT	BDL	BDL	NT	BDL	BDL	NT	BDL	BDL	NT
Nitrate Nitrogen, Water	BDL	BDL	NT	BDL	BDL	NT	BDL	BDL	NT	50	BDL	NT
Nitrite Nitrogen, Water	BDL	BDL	NT	BDL	BDL	NT	BDL	BDL	NT	BDL	BDL	NT
Phenols, Water	BDL	BDL	NT	BDL	BDL	NT	BDL	BDL	NT	BDL	BDL	NT
Sulfate, Water	BDL	BDL	NT	BDL	BDL	NT	BDL	BDL	NT	BDL	BDL	NT
Total Dissolved Solids, Water	7,000	9,500	NT	BDL	BDL	NT	BDL	BDL	NT	BDL	BDL	NT
Total Organic Carbon, Water	BDL	BDL	NT	BDL	BDL	NT	BDL	BDL	NT	BDL	BDL	NT
Total Organic Halogens, Water	BDL	BDL	NT	BDL	BDL	NT	BDL	BDL	NT	BDL	BDL	NT
Total Suspended Solids	BDL	BDL	NT	BDL	BDL	NT	BDL	BDL	NT	BDL	BDL	NT

Notes:
 BDL: Below Detection Limit
 NT: Not Tested

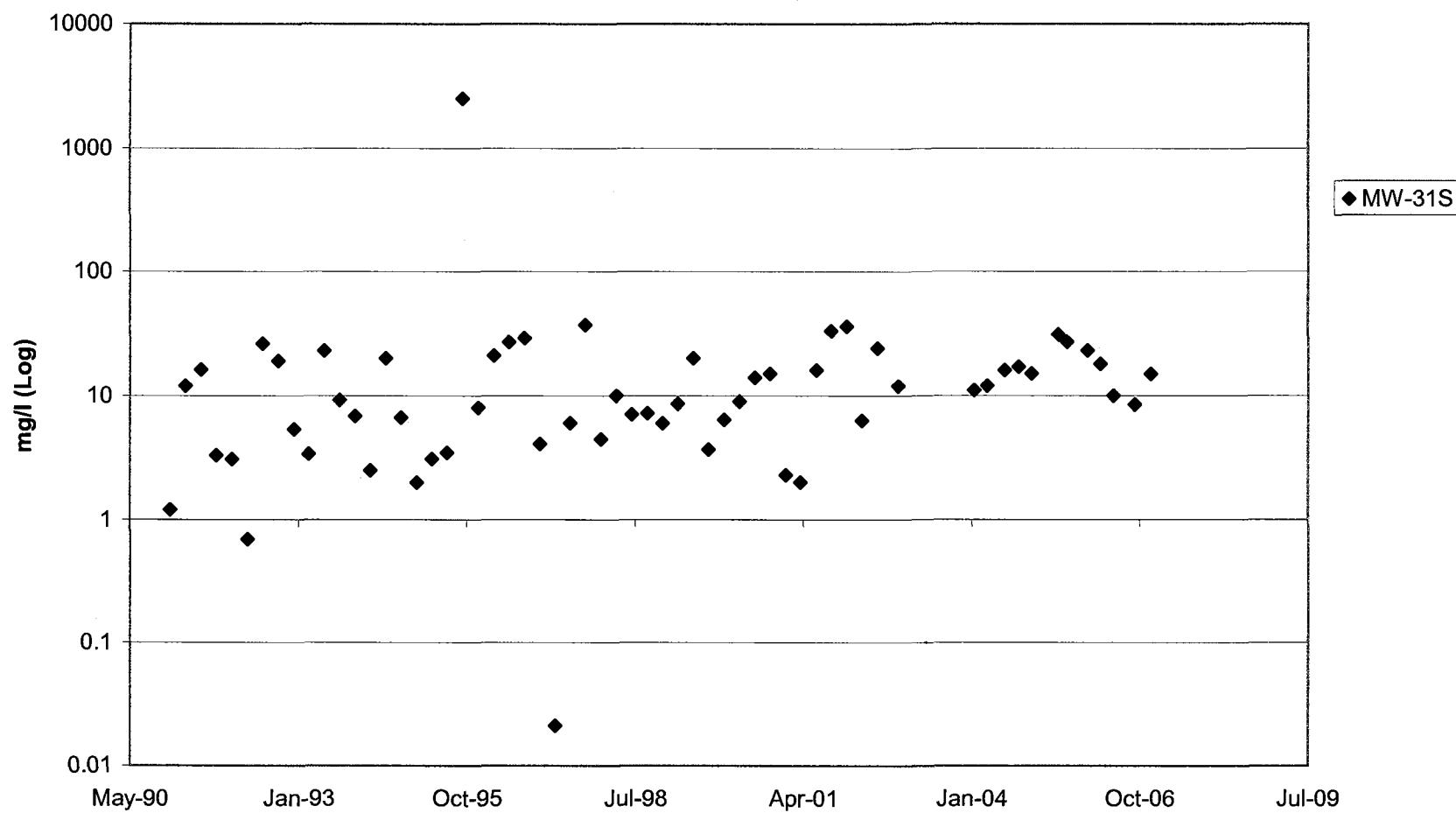
Ammonia
Thomaston Corporation (Envirite Corporation)
198 Old Waterbury Road
Thomaston, Connecticut



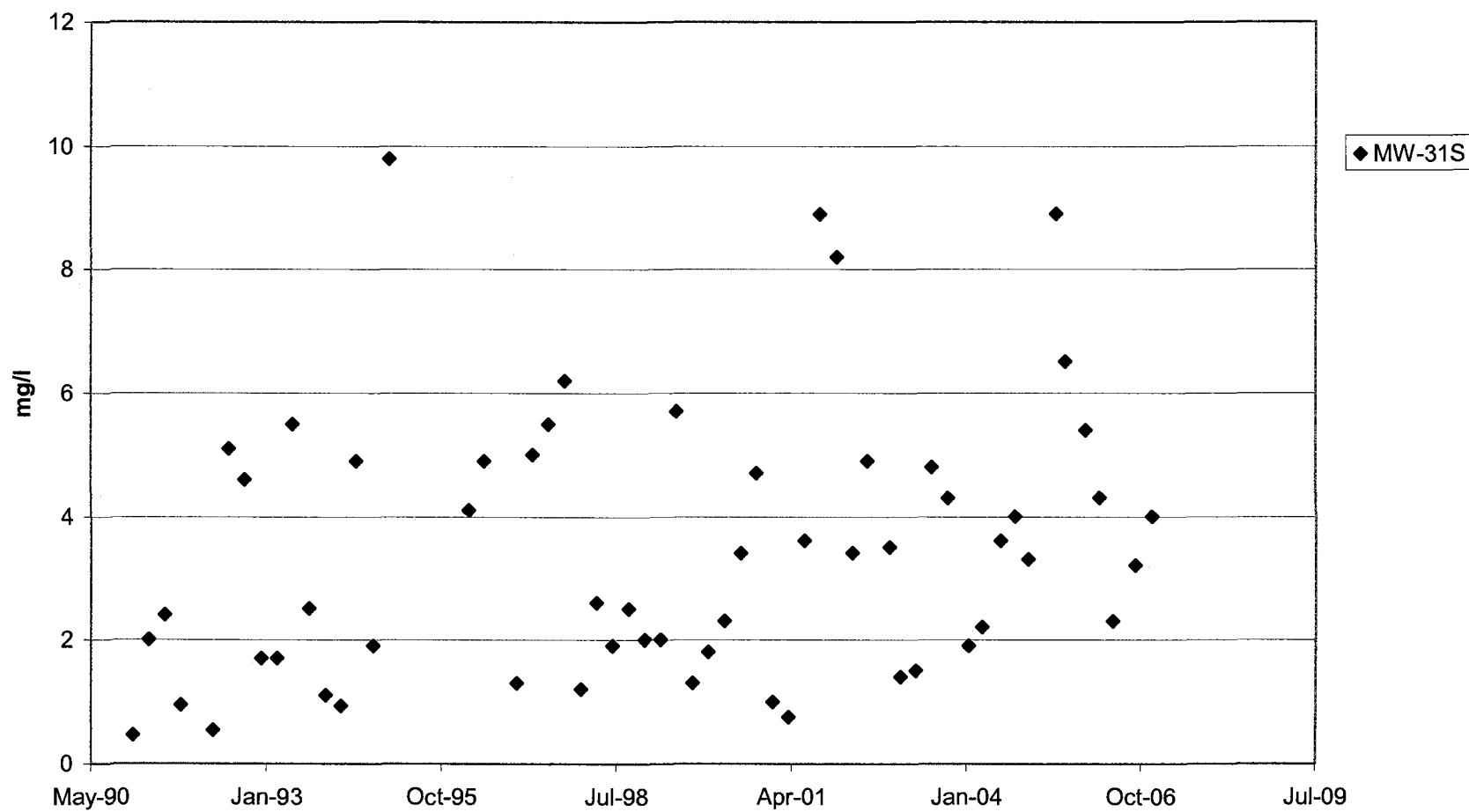
Benzene
Thomaston Corporation (Envirite Corporation)
198 Old Waterbury Road
Thomaston, Connecticut



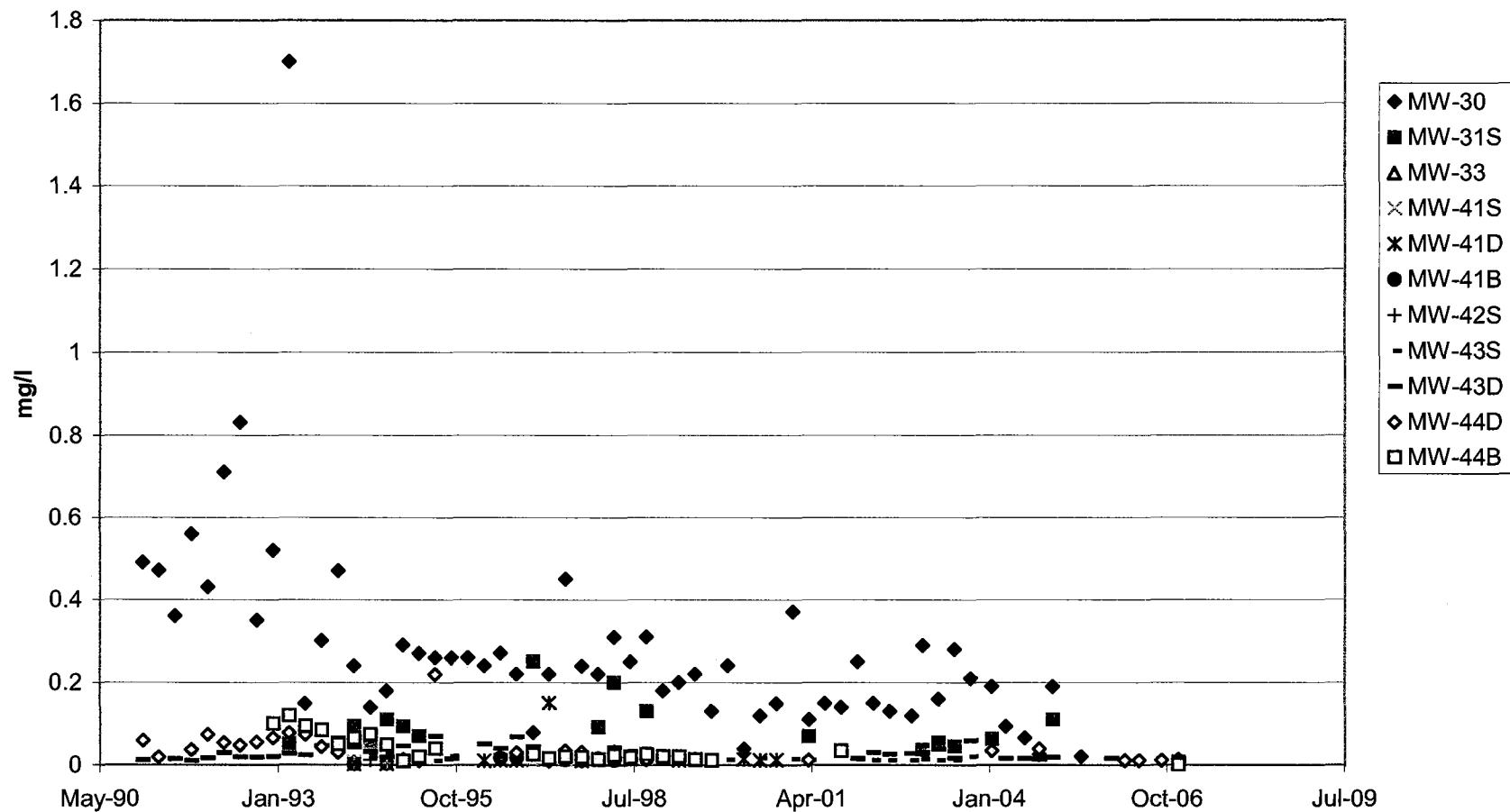
Toluene
Thomaston Corporation (Envirite Corporation)
198 Old Waterbury Road
Thomaston, Connecticut



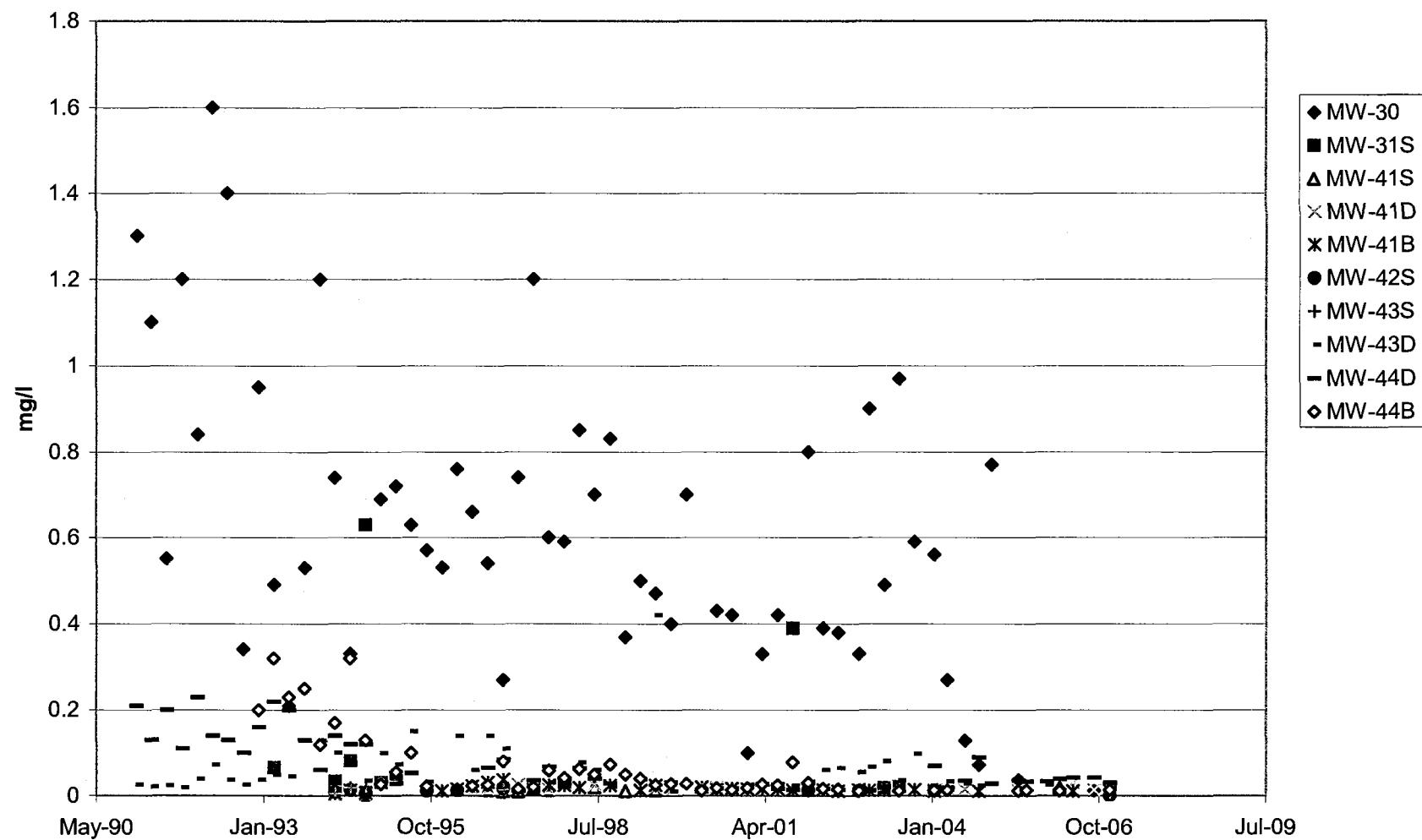
Ethylbenzene
Thomaston Corporation (Envirite Corporation)
198 Old Waterbury Road
Thomaston, Connecticut



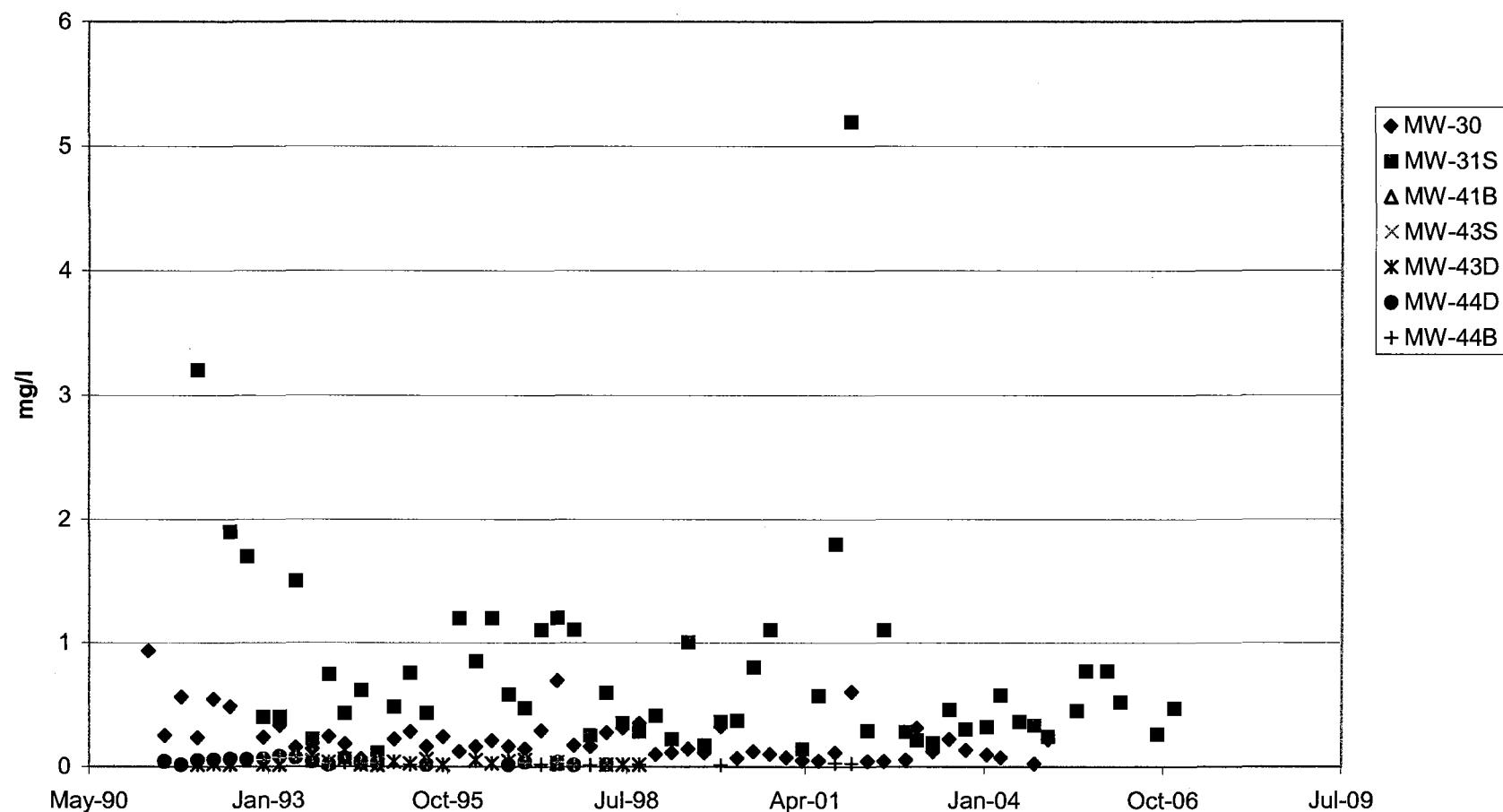
Tetrachloroethylene
Thomaston Corporation (Envrite Corporation)
198 Old Waterbury Road
Thomaston, Connecticut



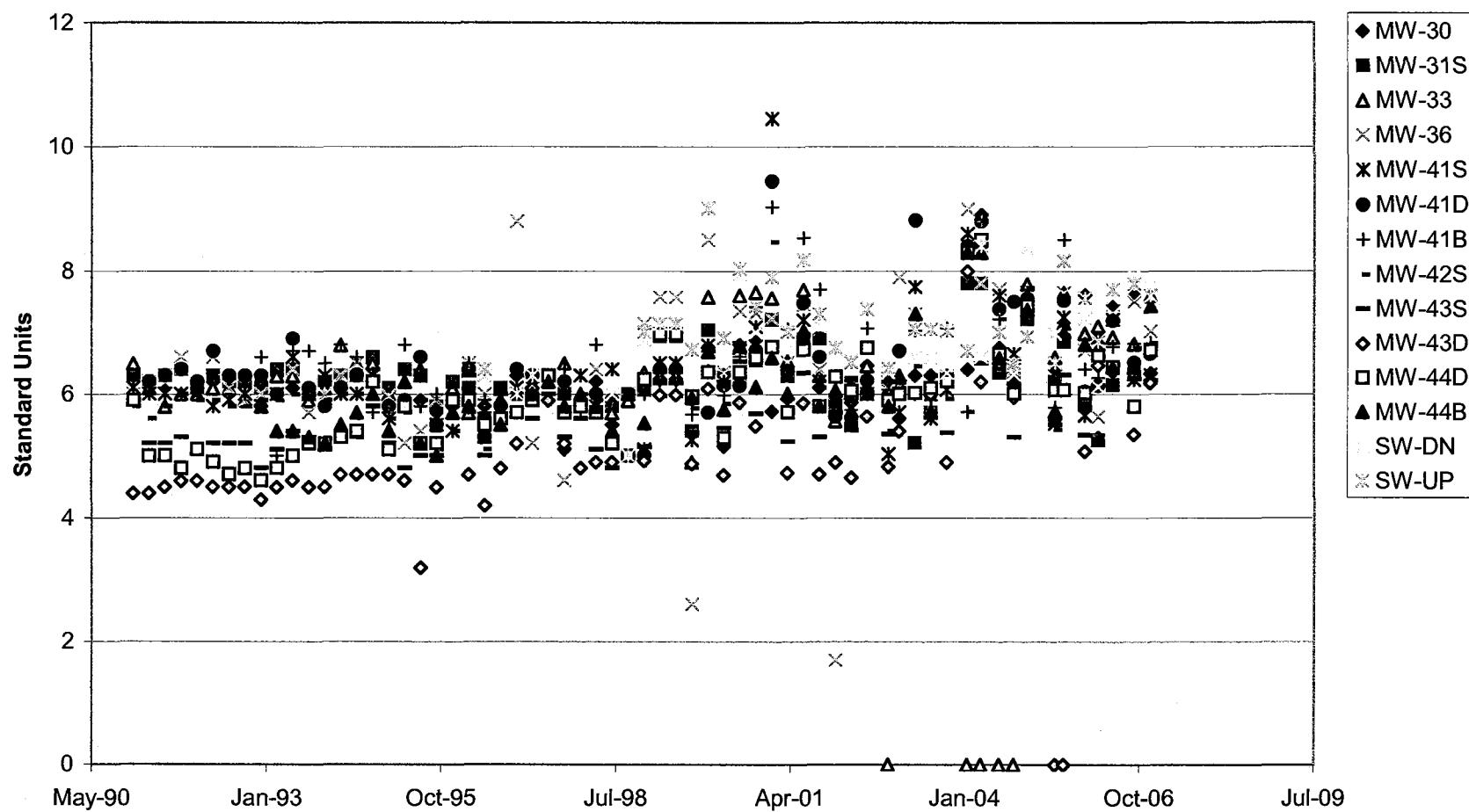
Trichloroethylene
Thomaston Corporation (Envirite Corporation)
198 Old Waterbury Road
Thomaston, Connecticut



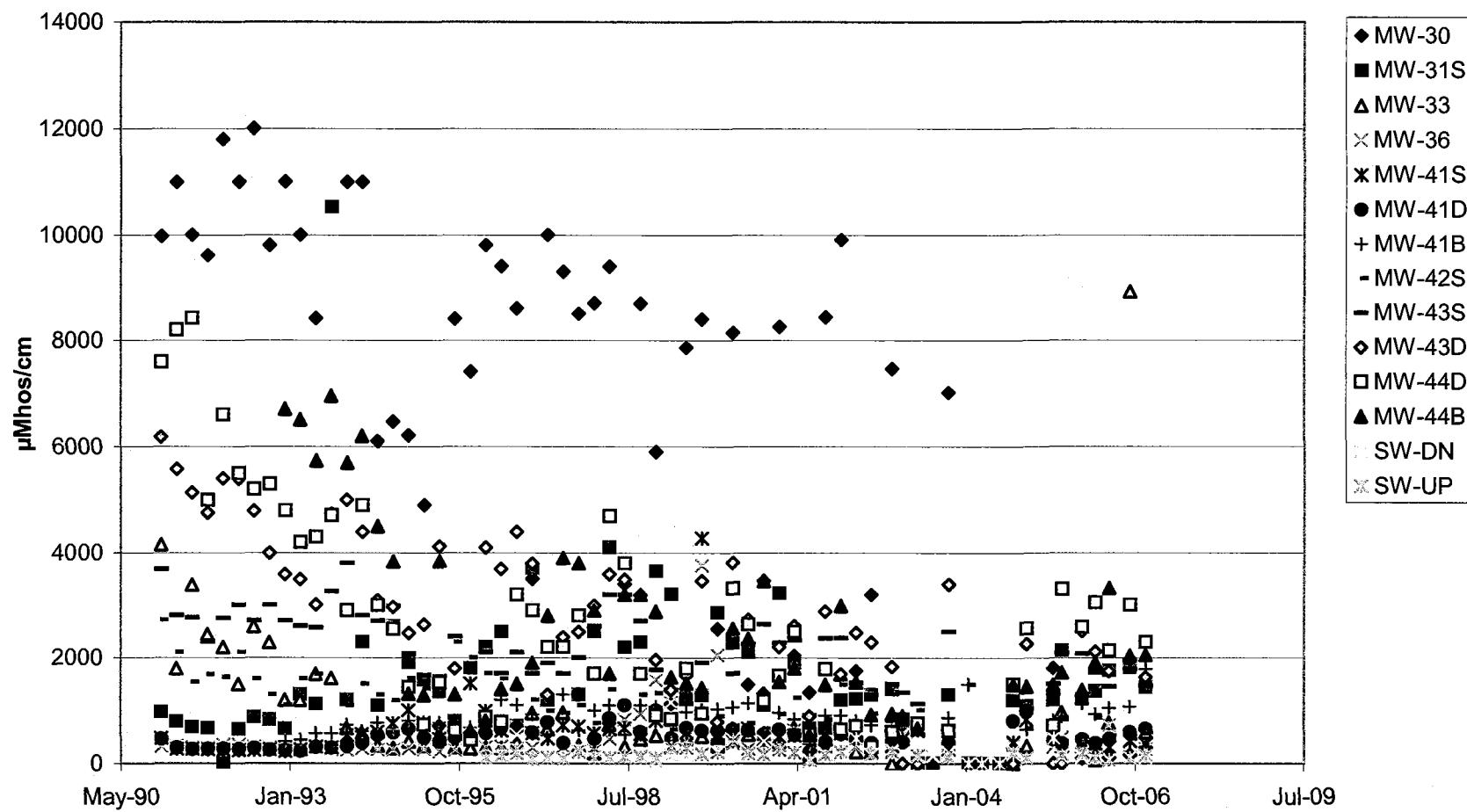
Vinyl Chloride
Thomaston Corporation (Envrite Corporation)
198 Old Waterbury Road
Thomaston, Connecticut



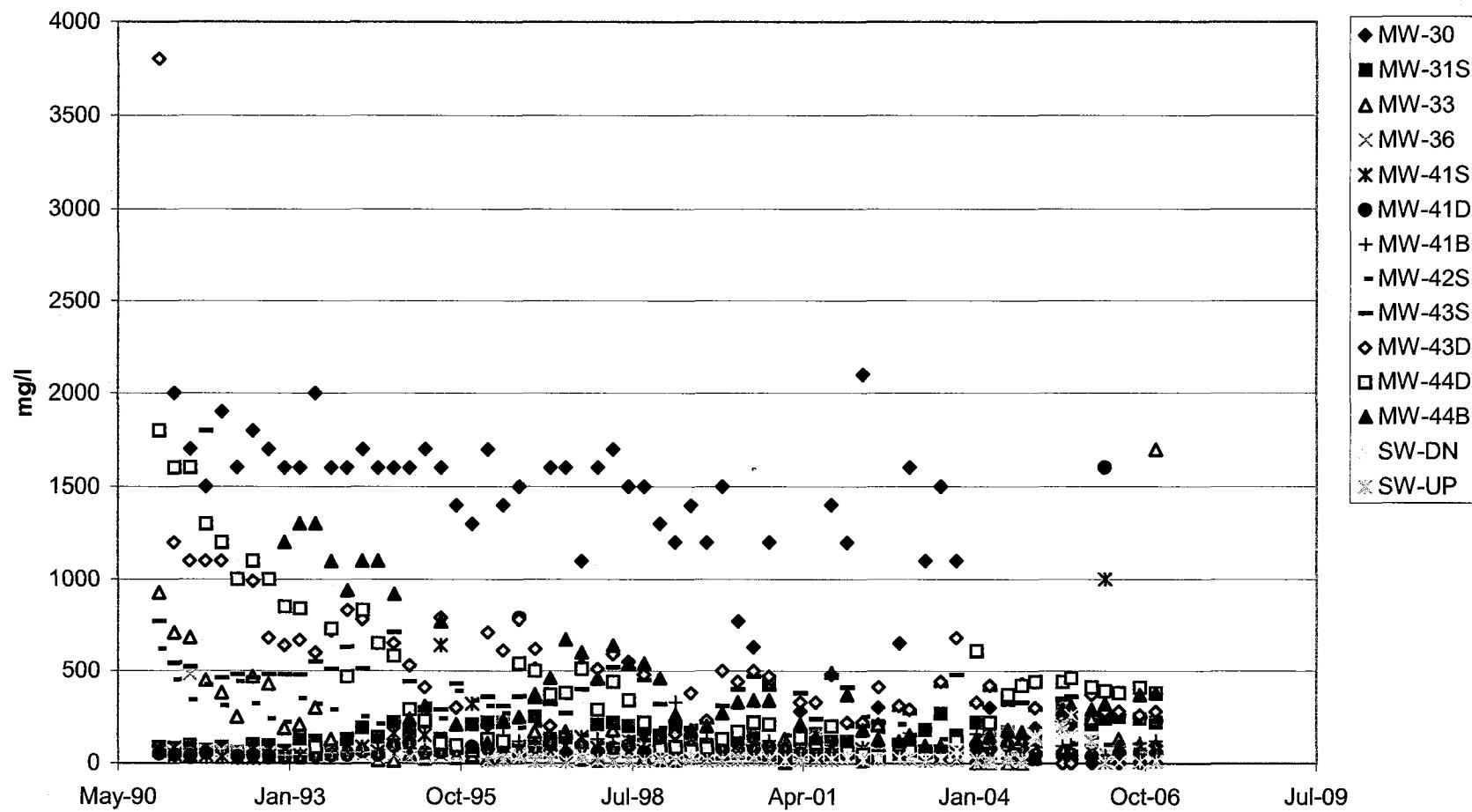
pH
Thomaston Corporation (Envirite Corporation)
198 Old Waterbury Road
Thomaston, Connecticut



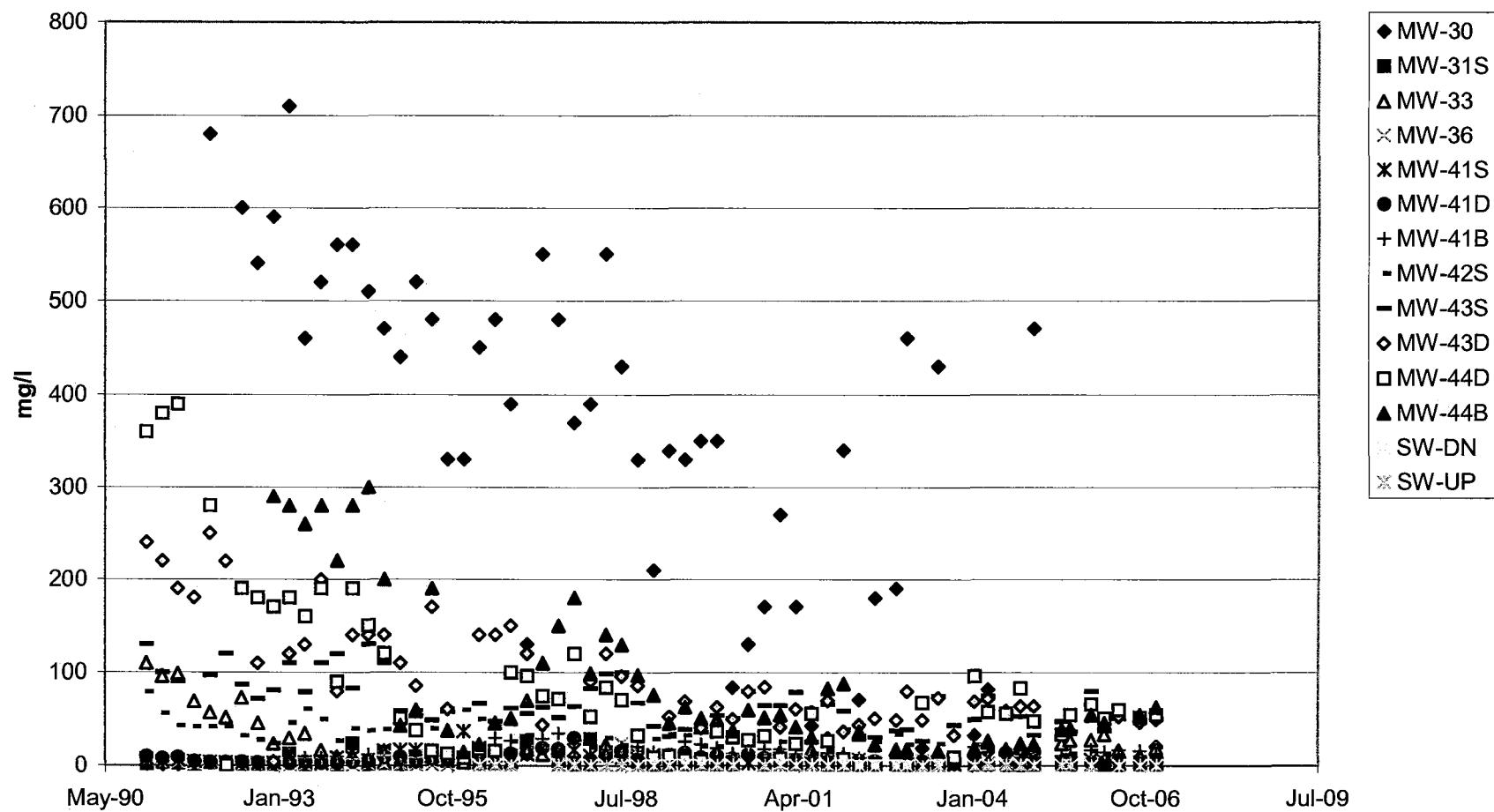
Specific Conductivity
Thomaston Corporation (Envrite Corporation)
198 Old Waterbury Road
Thomaston, Connecticut



Chloride
Thomaston Corporation (Envirite Corporation)
198 Old Waterbury Road
Thomaston, Connecticut

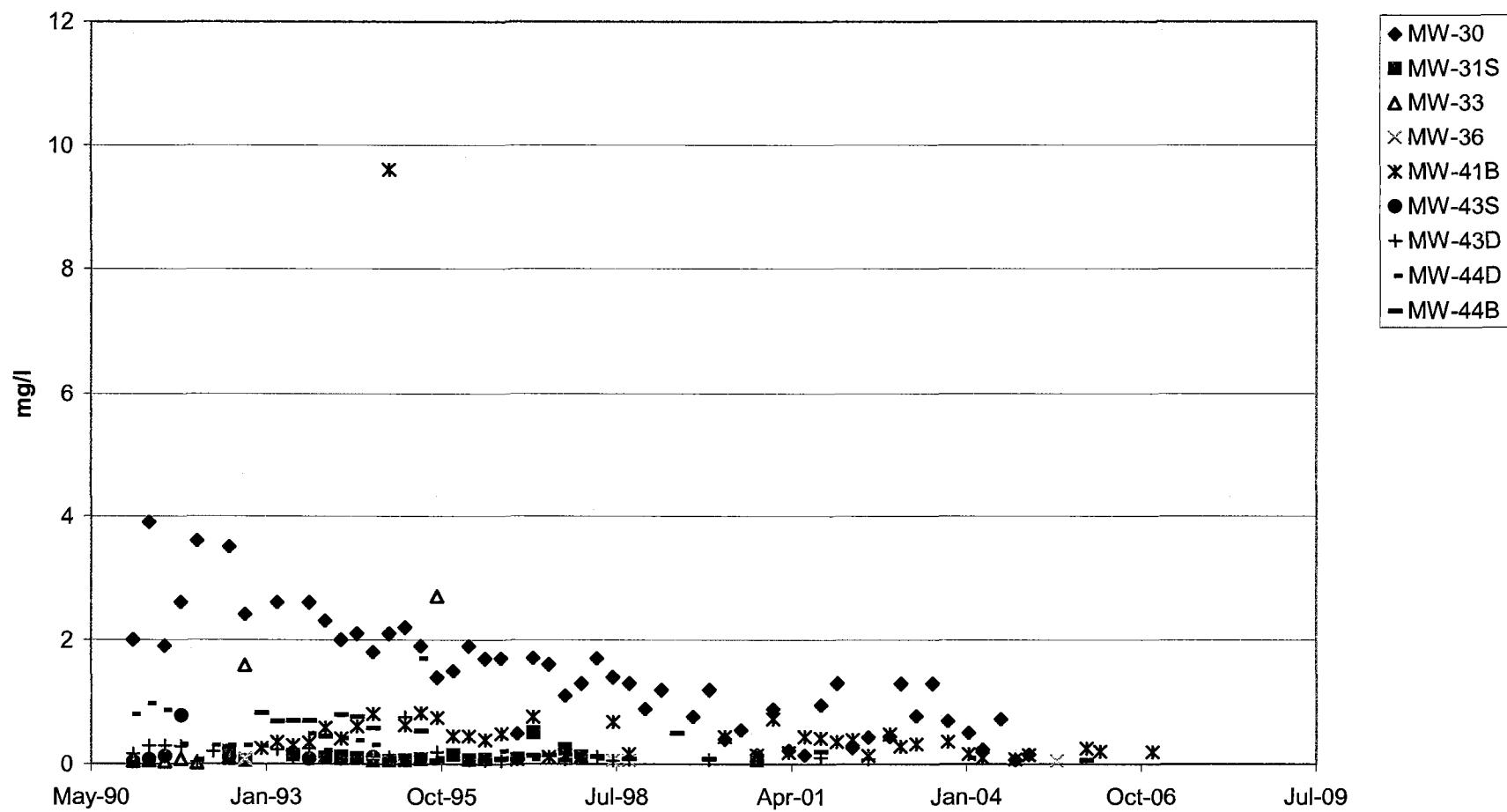


Nitrate
Thomaston Corporation (Envirite Corporation)
198 Old Waterbury Road
Thomaston, Connecticut

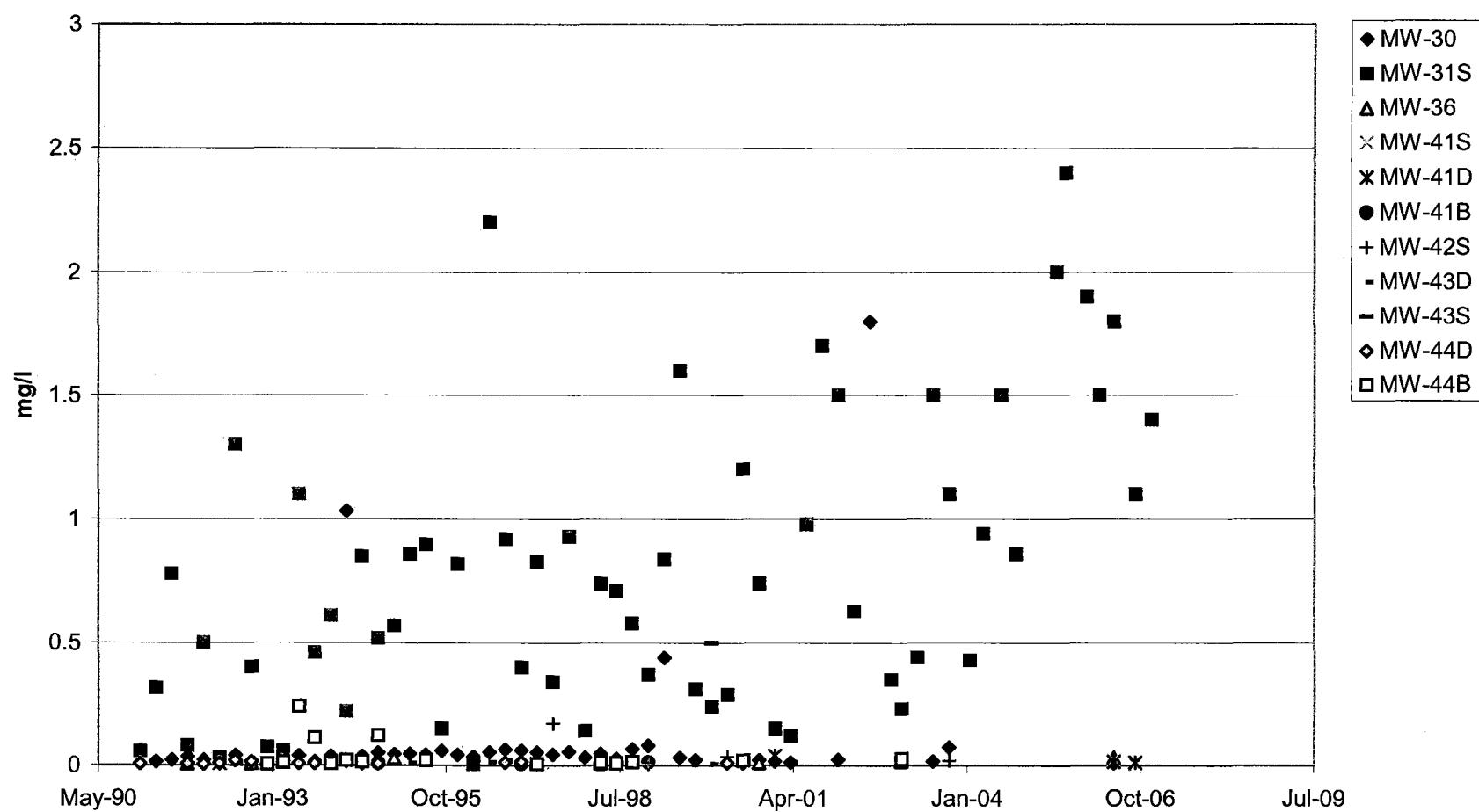


Nitrite

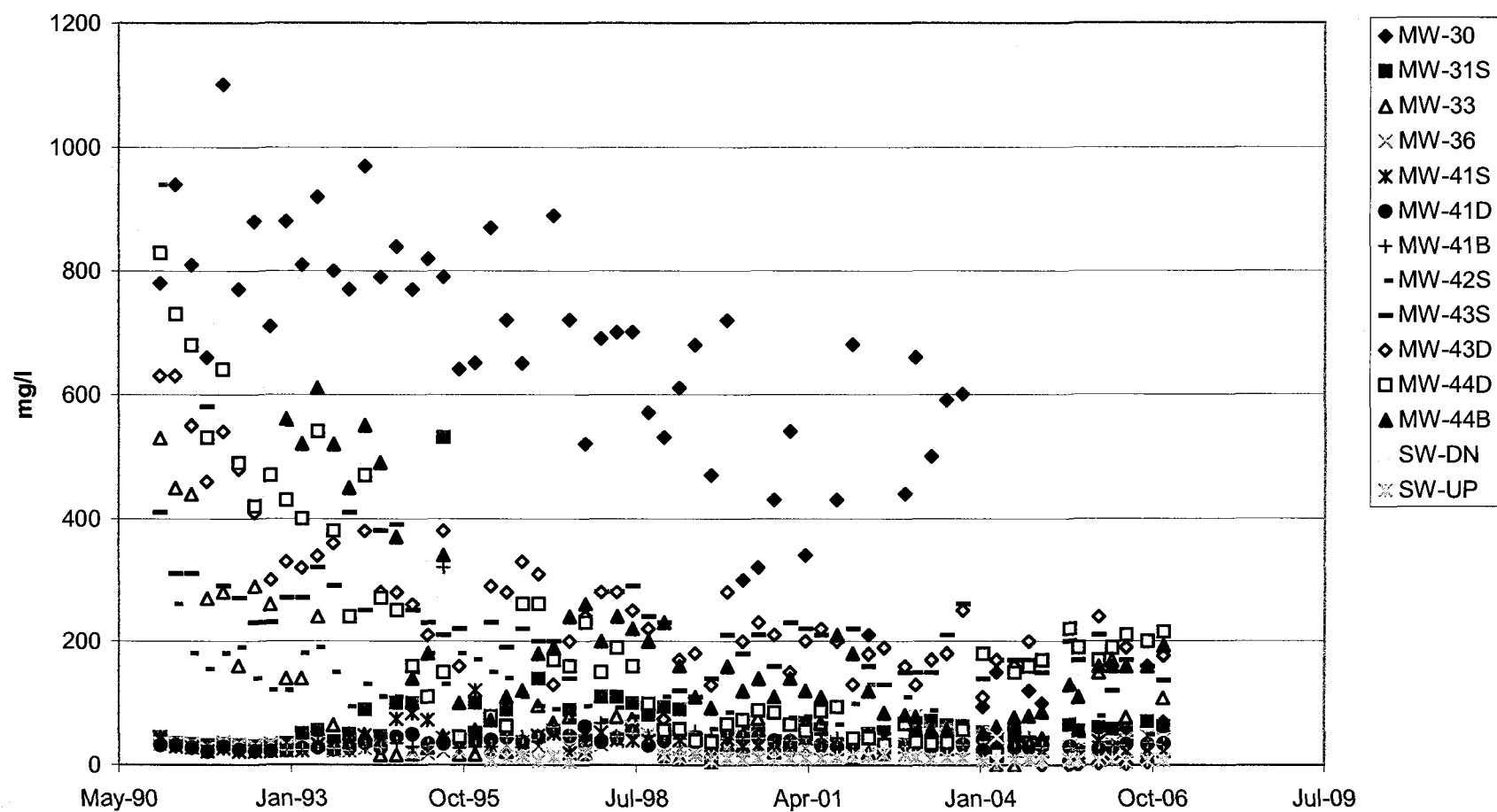
Thomaston Corporation (Envirite Corporation)
198 Old Waterbury Road
Thomaston, Connecticut



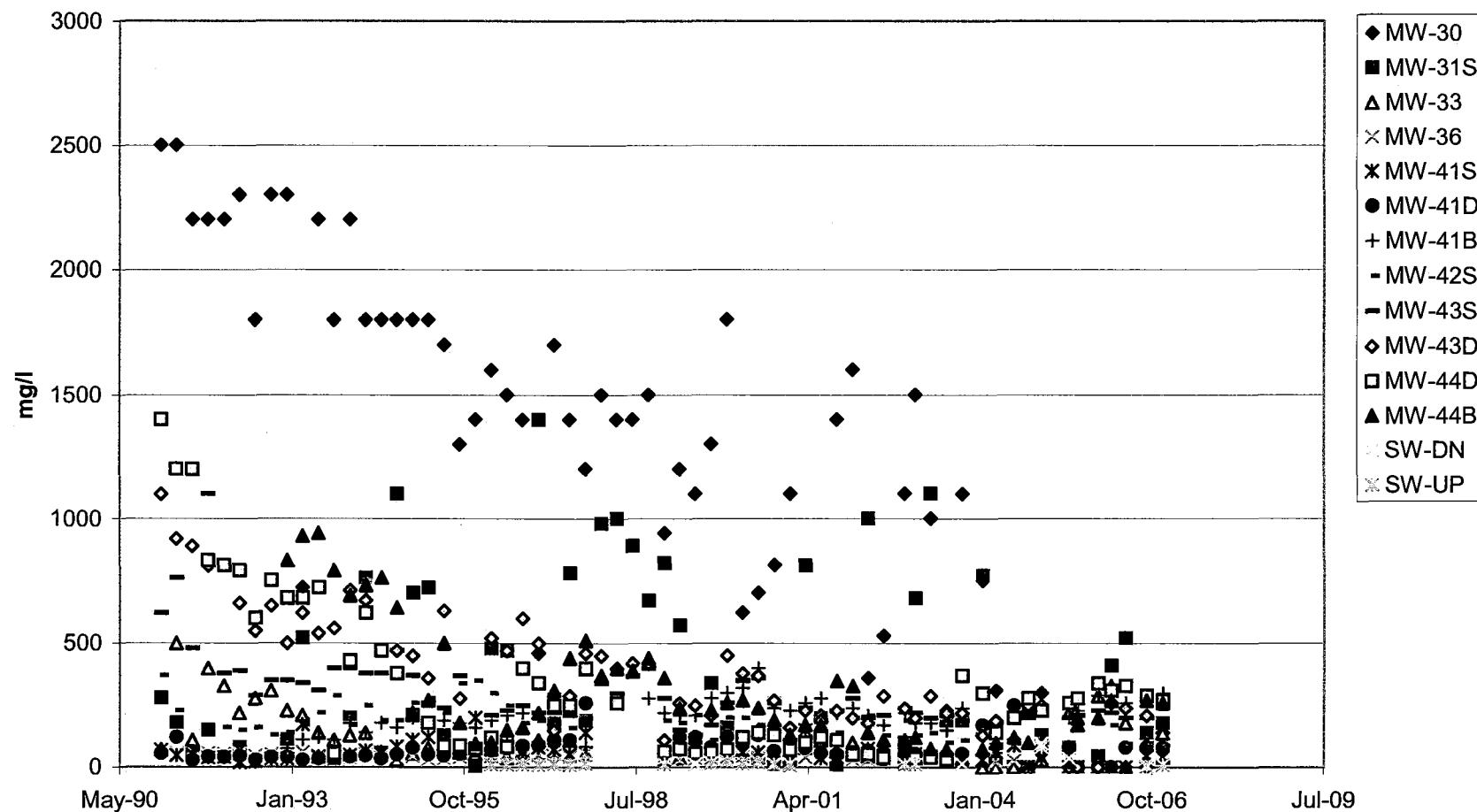
Phenols
Thomaston Corporation (Envirite Corporation)
198 Old Waterbury Road
Thomaston, Connecticut



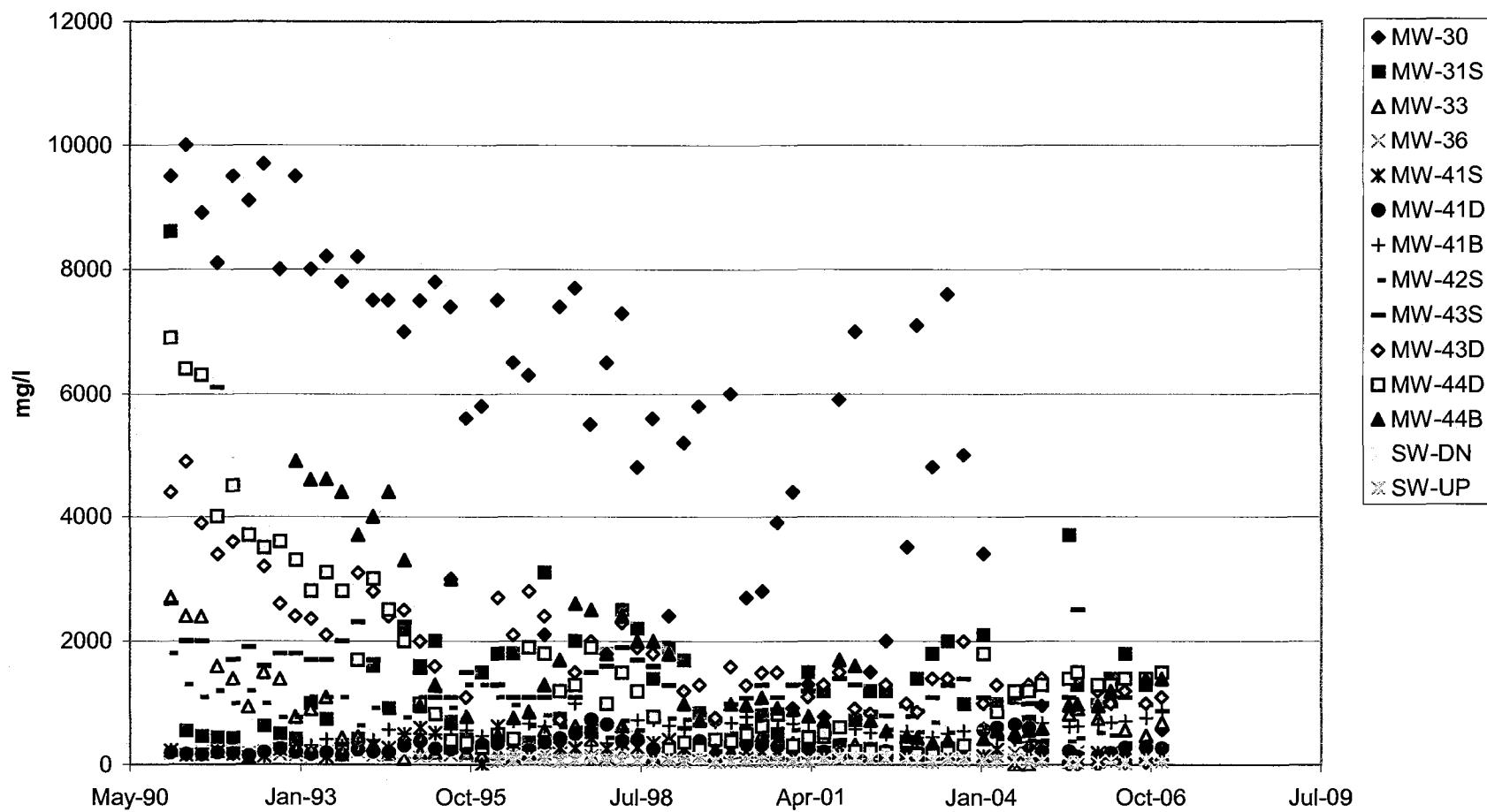
Sodium
Thomaston Corporation (Envirite Corporation)
198 Old Waterbury Road
Thomaston, Connecticut



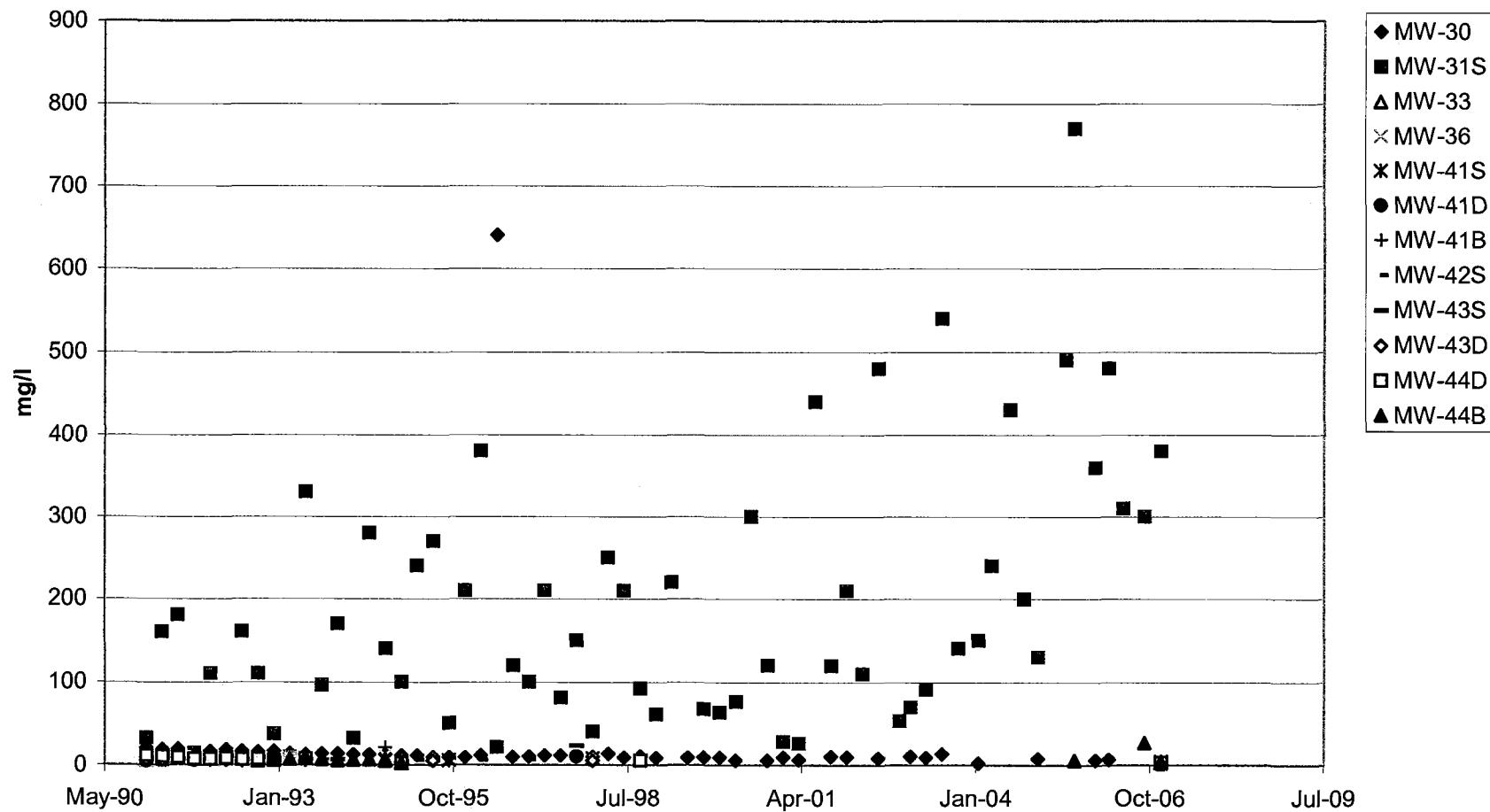
Sulfate
Thomaston Corporation (Envirite Corporation)
198 Old Waterbury Road
Thomaston, Connecticut



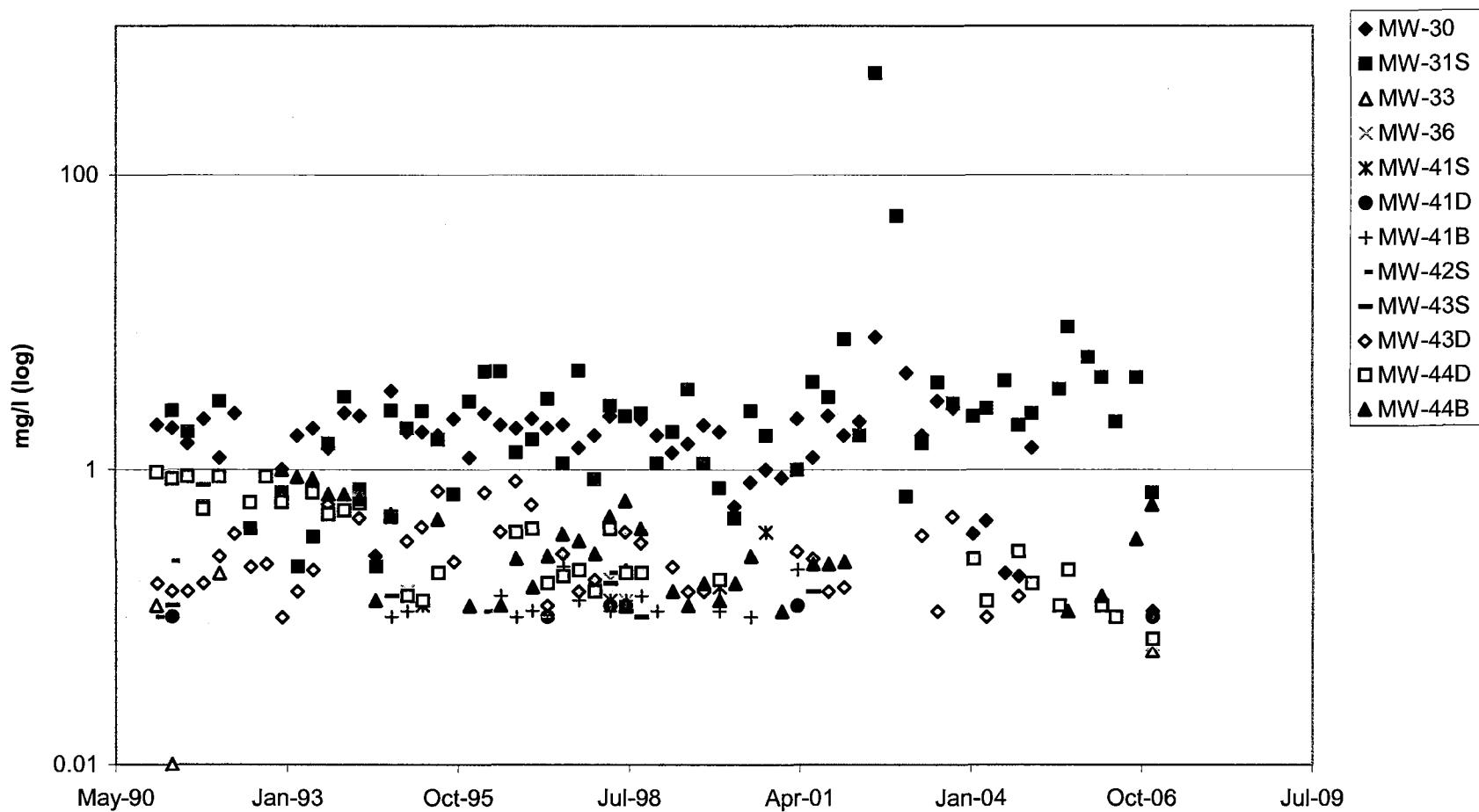
Total Dissolved Solids
Thomaston Corporation (Envrite Corporation)
198 Old Waterbury Road
Thomaston, Connecticut



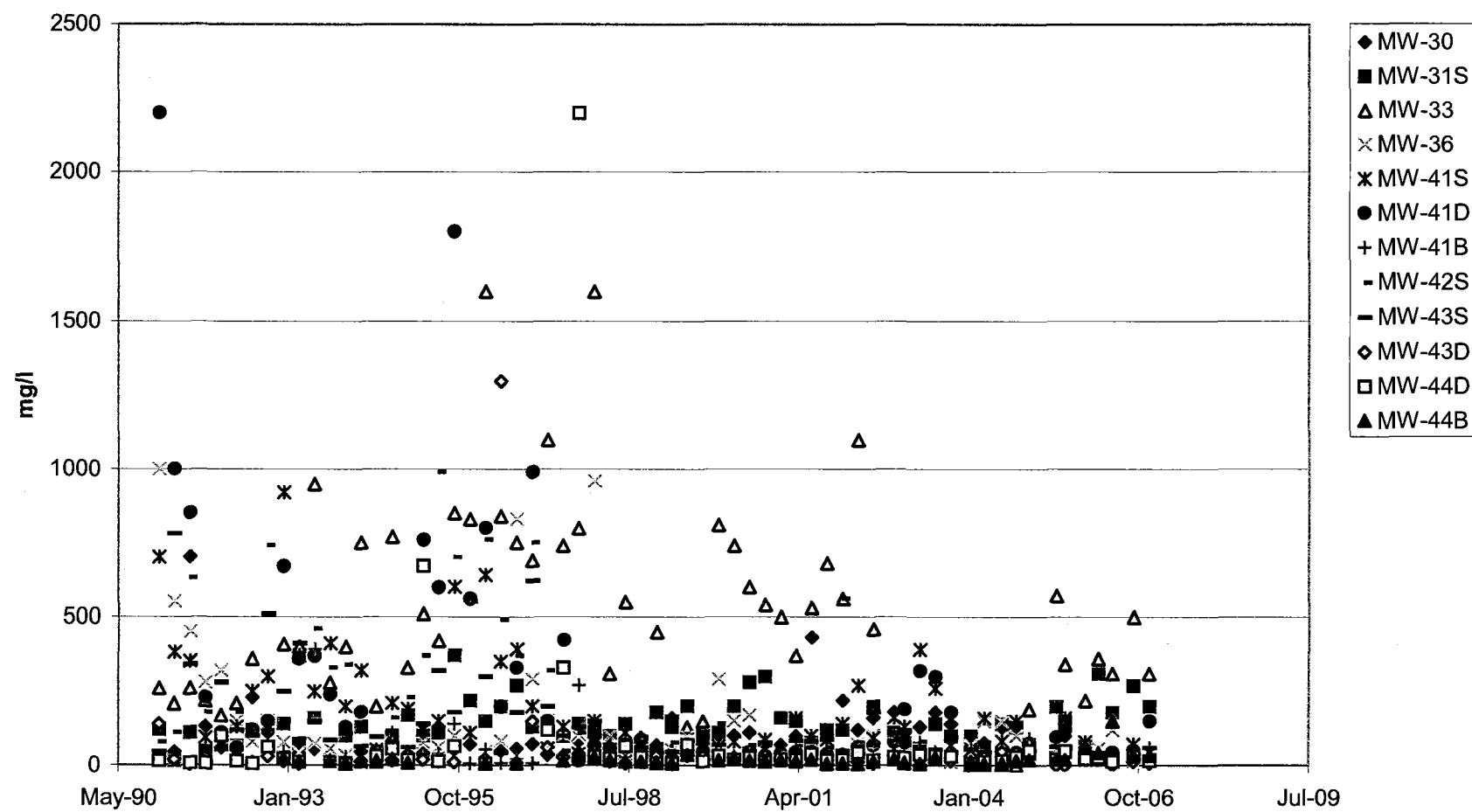
Total Organic Carbon
Thomaston Corporation (Envrite Corporation)
198 Old Waterbury Road
Thomaston, Connecticut



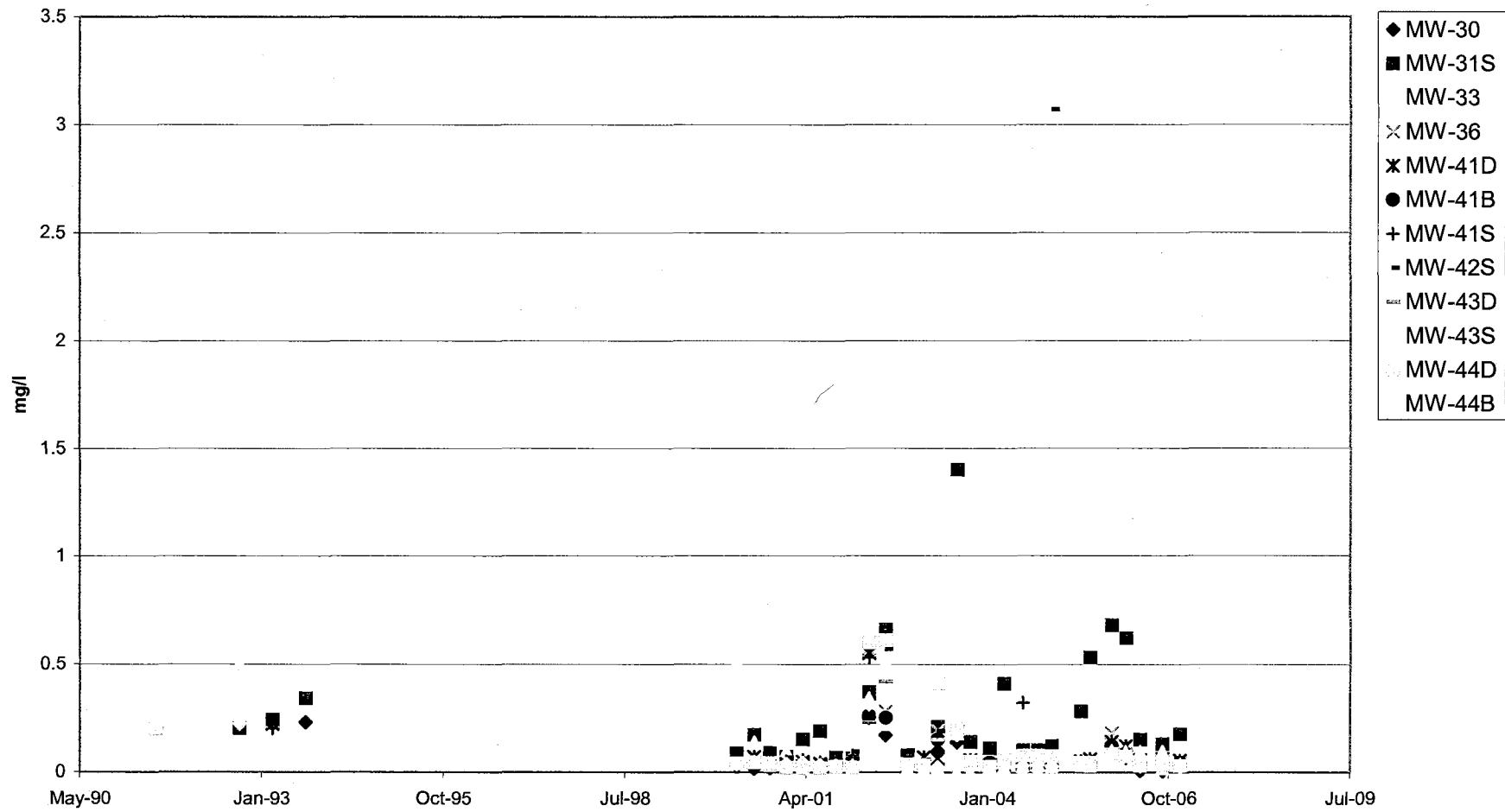
Total Organic Halogens
Thomaston Corporation (Envirite Corporation)
198 Old Waterbury Road
Thomaston, Connecticut



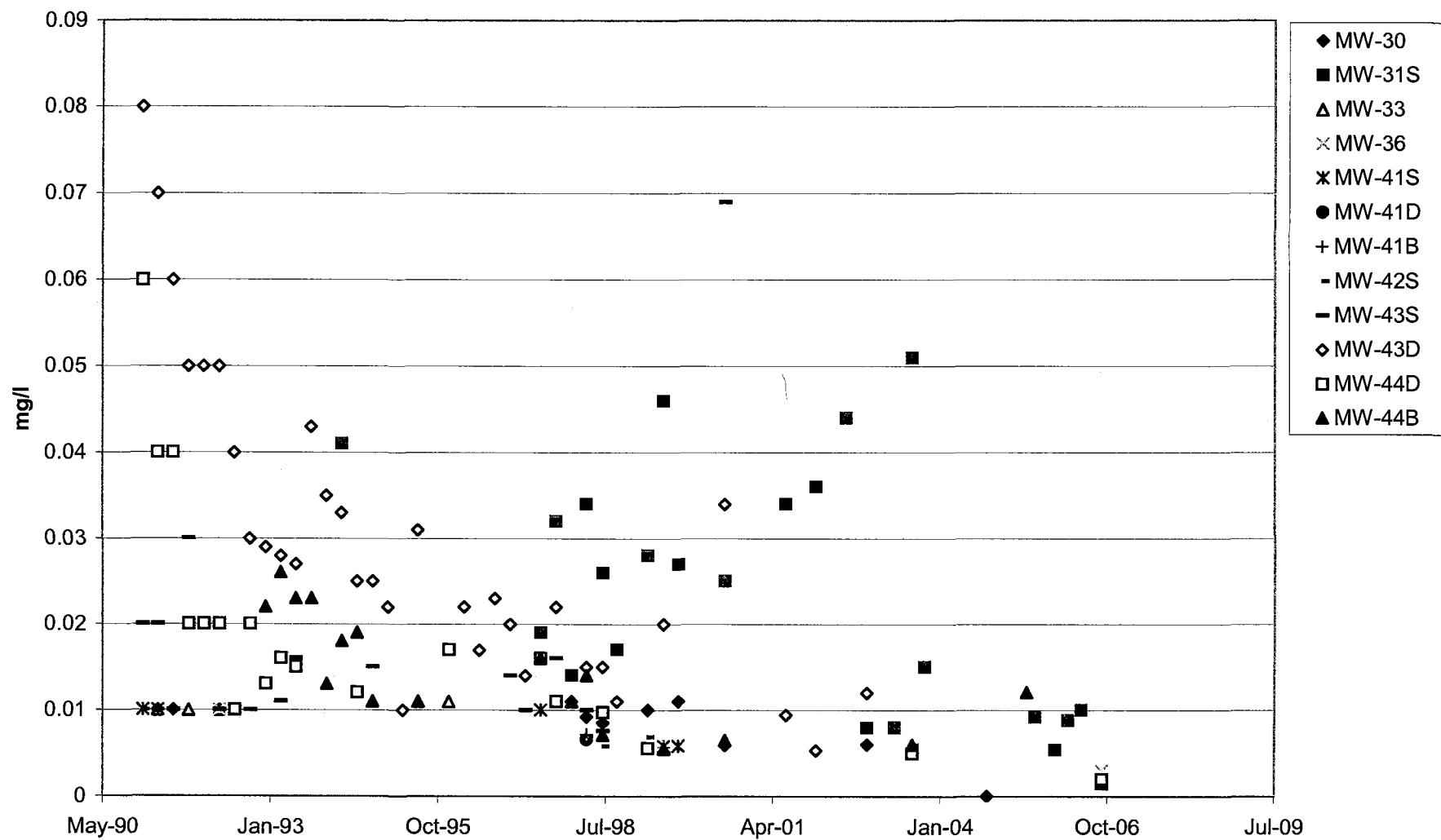
Total Suspended Solids
Thomaston Corporation (Envirite Corporation)
198 Old Waterbury Road
Thomaston, Connecticut



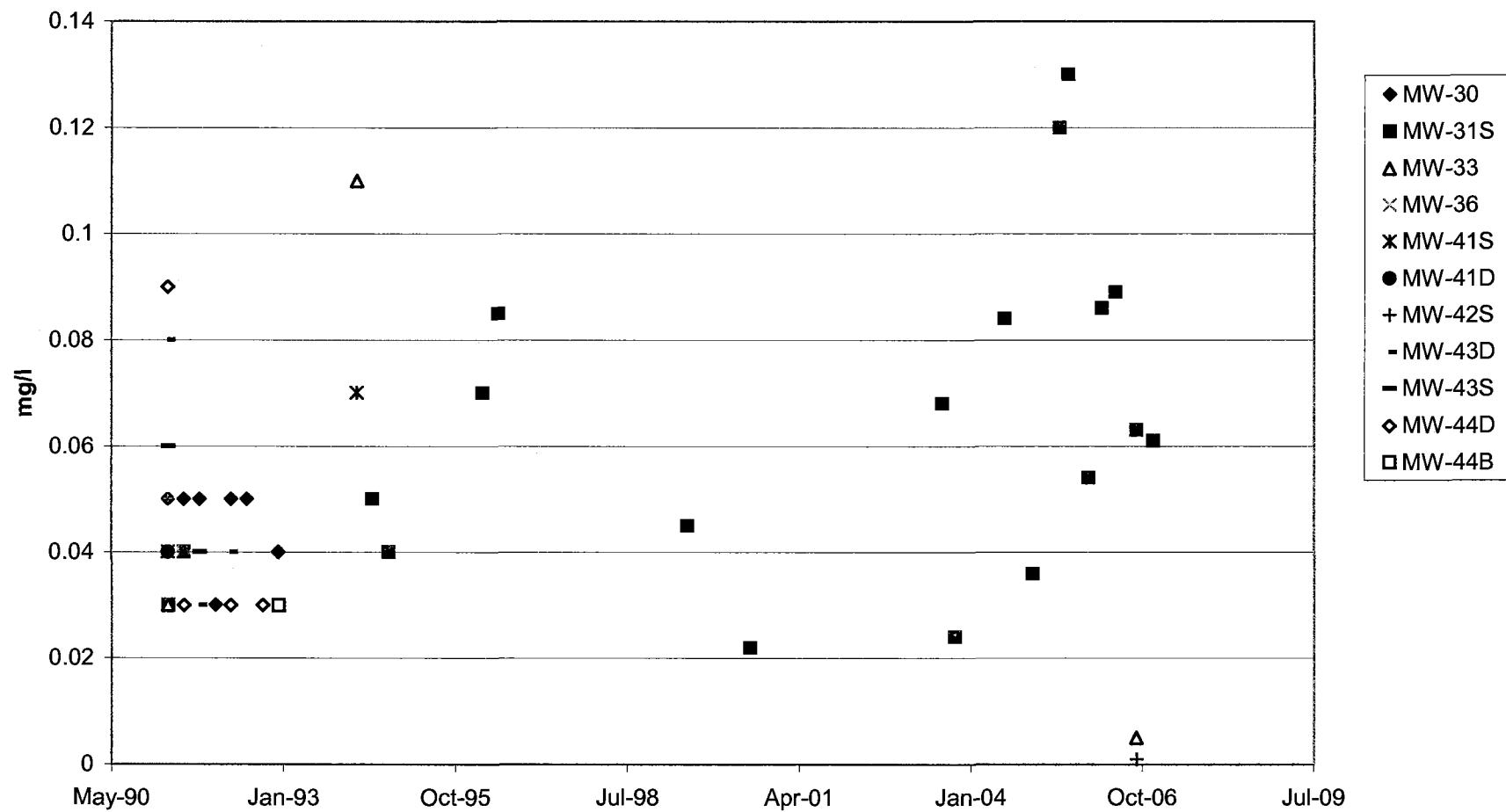
Barium
Thomaston Corporation (Envirite Corporation)
198 Old Waterbury Road
Thomaston, Connecticut



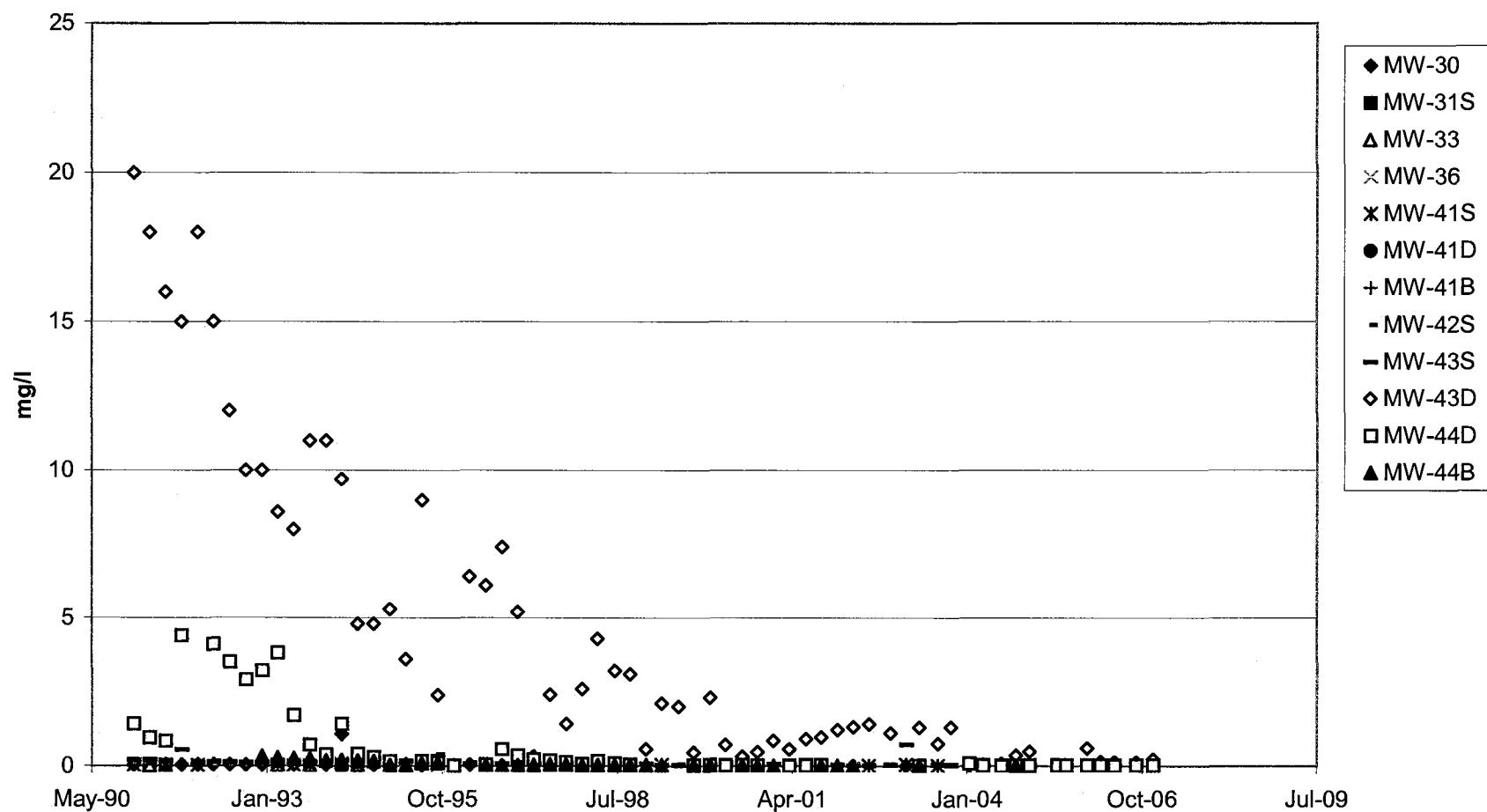
Cadmium
Thomaston Corporation (Envirite Corporation)
198 Old Waterbury Road
Thomaston, Connecticut



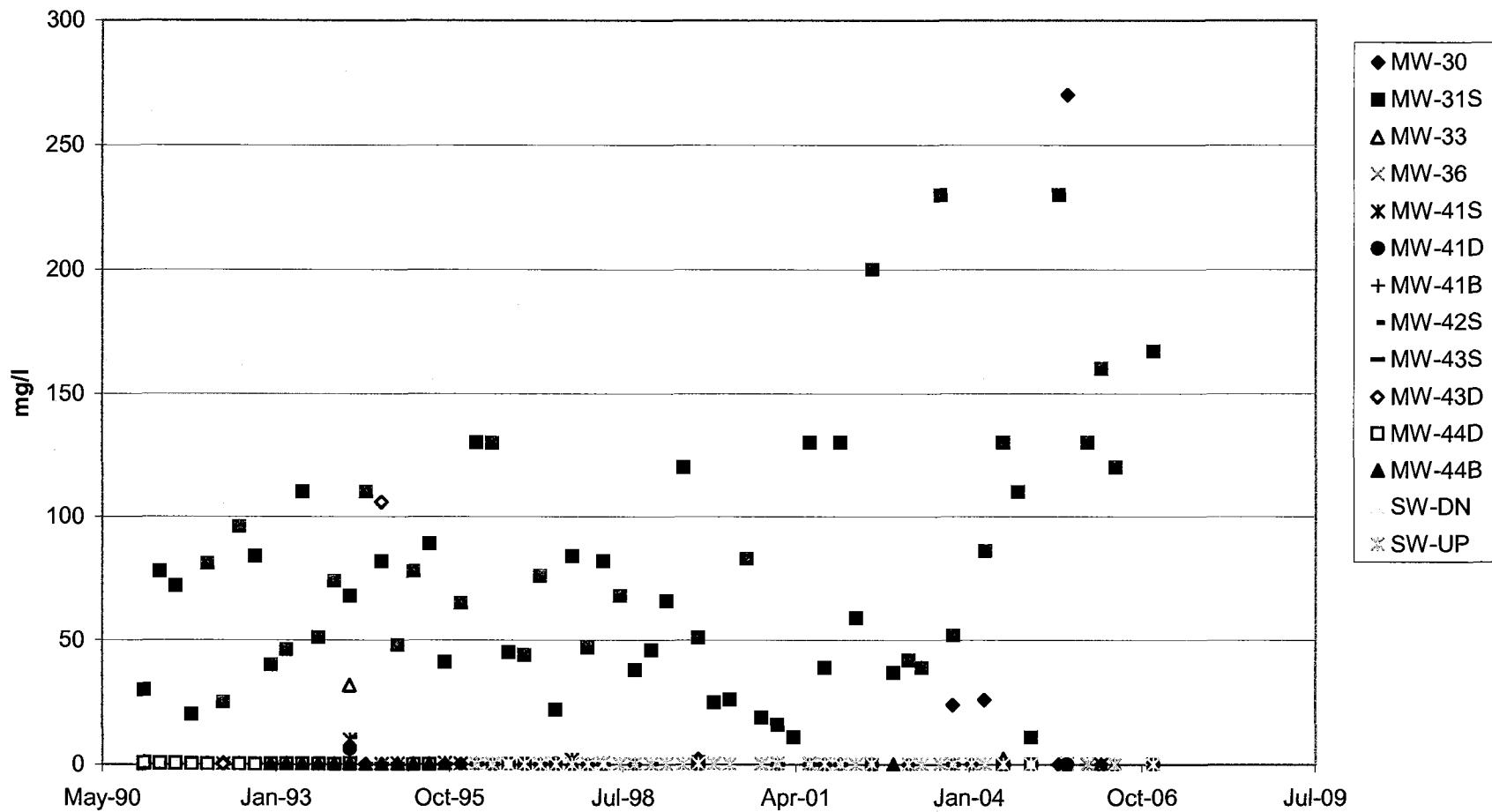
Chromium
Thomaston Corporation (Envirite Corporation)
198 Old Waterbury Road
Thomaston, Connecticut



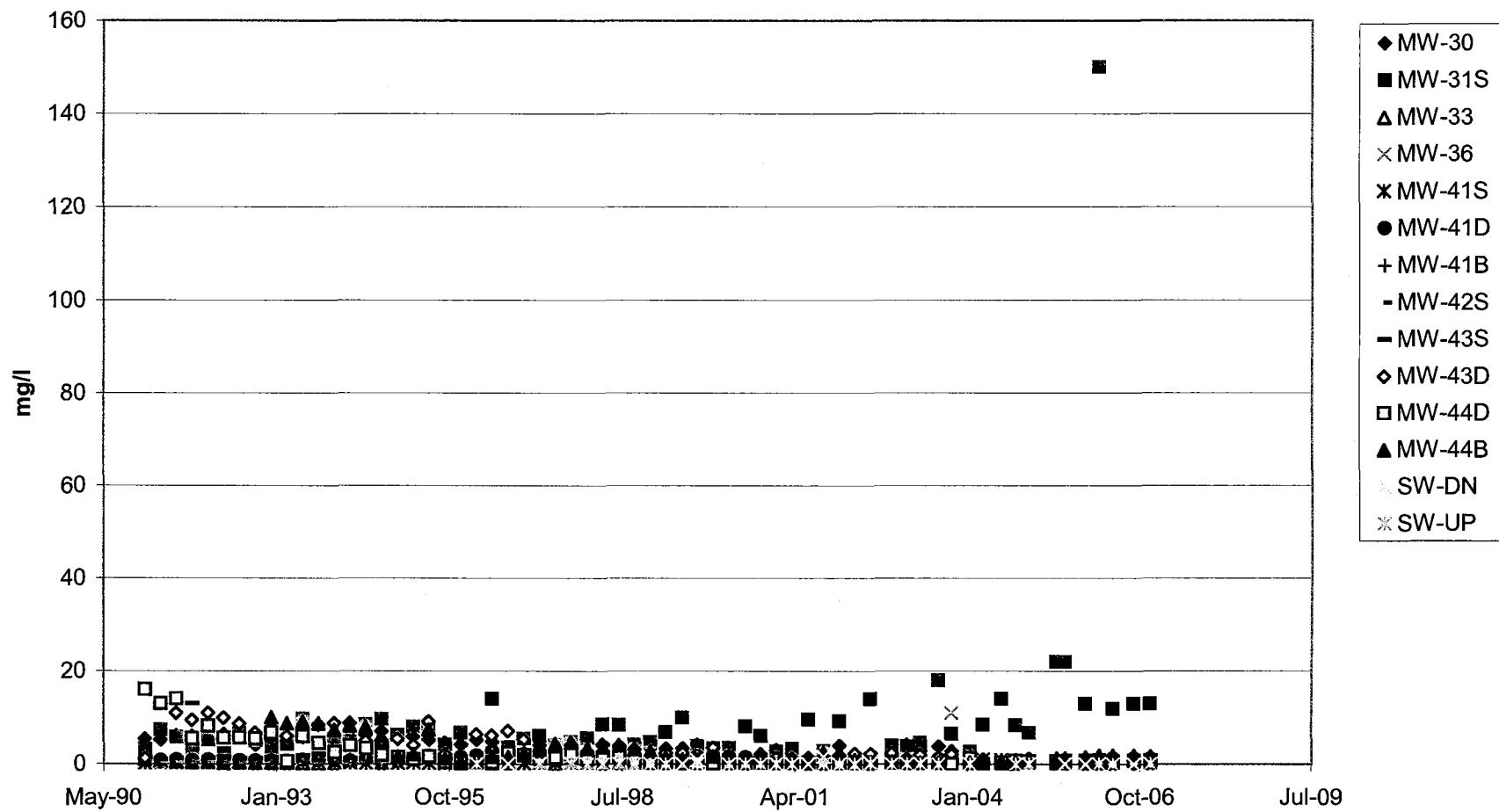
Copper
Thomaston Corporation (Envirite Corporation)
198 Old Waterbury Road
Thomaston, Connecticut



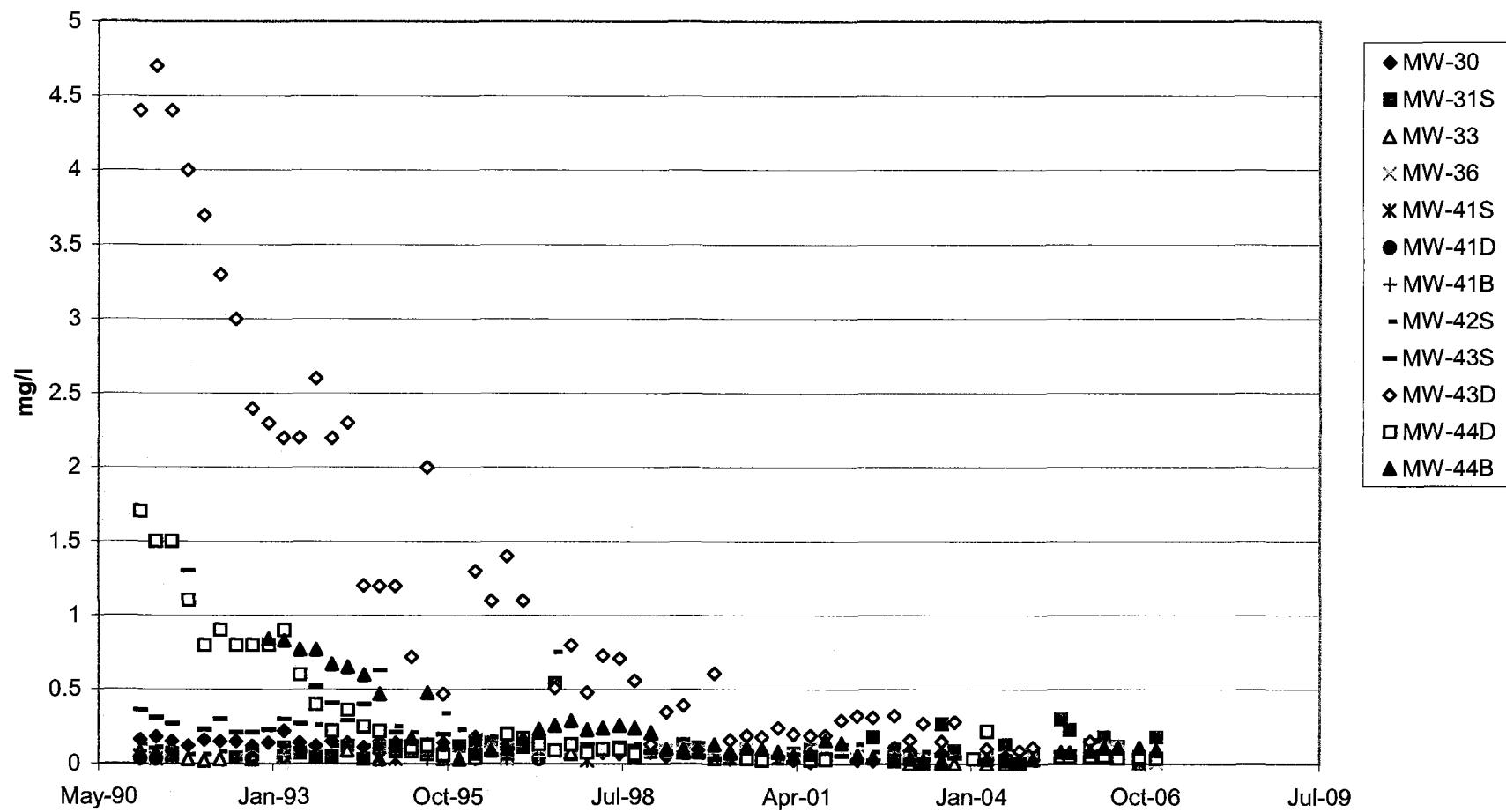
Iron
Thomaston Corporation (Envirite Corporation)
198 Old Waterbury Road
Thomaston, Connecticut



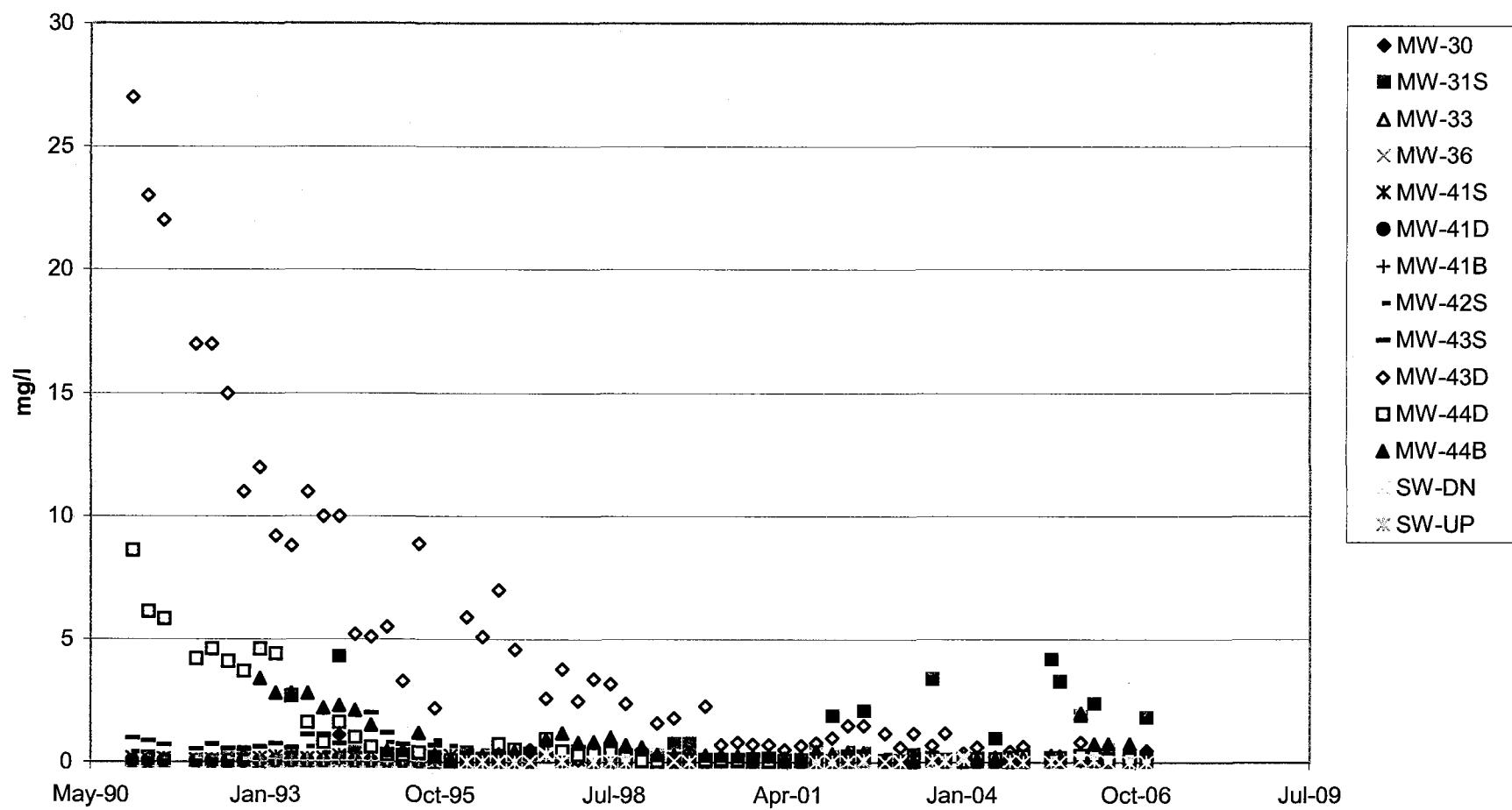
Manganese
Thomaston Corporation (Envirite Corporation)
198 Old Waterbury Road
Thomaston, Connecticut



Nickel
Thomaston Corporation (Envirite Corporation)
198 Old Waterbury Road
Thomaston, Connecticut



Zinc
Thomaston Corporation (Envirite Corporation)
198 Old Waterbury Road
Thomaston, Connecticut



Cyanide
Thomaston Corporation (Envirite Corporation)
198 Old Waterbury Road
Thomaston, Connecticut

